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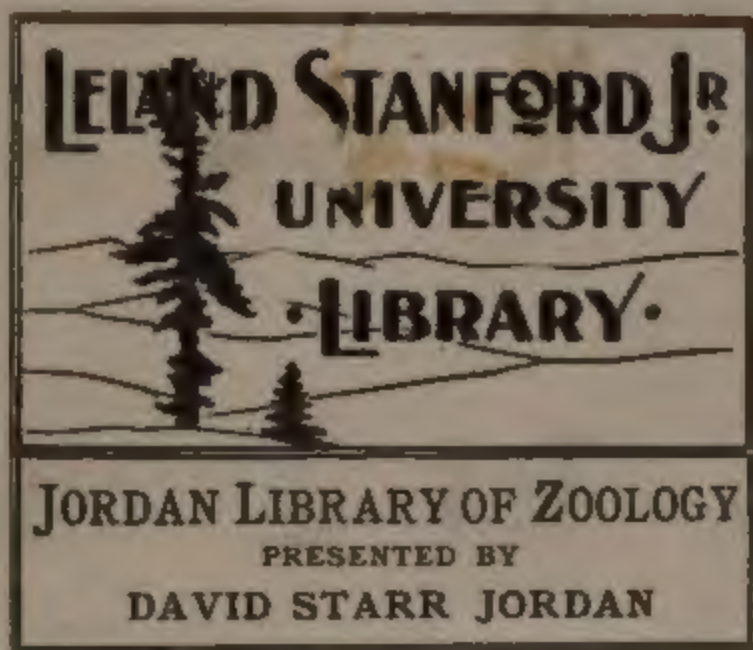
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597  
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Dec 28, 1896  
published

David J.  
Palo

Acrotus willoughbyi

Vol. 7, No. 3, p. 179, July 1921, San Pedro Bay

Trichiurus lepturus

Vol. 7, No. 3, p. 179, July 1921 Long Beach

Phanerodon stripes

Vol. 7, No. 4, p. 270, 1921 San Pedro Market

Sebastodes eos

Vol. 7, No. 4, p. 270 1921 San Clemente

Sebastodes gilli

Vol. 7, No. 4, p. 270 1921 San Pedro Markets

# Examined by the state Fisheries

Laboratory. (Wick & Shoupman)

Species	Reference to "California Fish and Game" Magazine.	Locality.
<i>Auxis thazard</i>	Vol. 4, No. 4, p. 183, Oct. 1918 " 5, " 4, p. 200, Oct. 1919	San Pedro San Pedro
<i>Tetragonurus cuvieri</i>	Vol. 5, No. 2, p. 94 Apr. 1919	Catalina Isl.
<i>Stylophthalmus paradoxus</i>	Vol. 5, No. 2, p. 95, Apr. 1919	Off Southern California
<i>Citharichthys xanthostigma</i>	Vol. 5, No. 2, p. 95, Apr. 1919	Oceanside and San Diego
<i>Exonastes rondelleti</i>	Vol. 5, No. 2, p. 95, Apr. 1919	150 miles off San Diego
<i>Upeneus dentatus</i>	Vol. 5, No. 3, p. 156, July 1919	Encinitas & Long Beach
<i>Allosa sapidissima</i>	Vol. 5, No. 3, p. 158, July 1919	Seal Beach.
<i>Anoplopoma fimbria</i>	Vol. 5, No. 3, p. 158, July 1919	San Pedro Bay.
<i>Thynnus imperialis</i>	Vol. 5, No. 4, p. 203, Oct. 1919	Catalina Island.



# Brems rail

**Vol. 5, No. 4, p. 203, Oct, 1919**

**San Pedro Bay.**

**Cololabis serira**

**Vol. 5, No. 4, p. 203, Oct. 1919**

**San Diego**

# Macrorhynchus

# hawaiiensis

**Vol. 6, No. 1, p. 22 Jan. 1920**

# Catalina Island

# Flagellis bipinnulatus

**Vol. 6, No. 1, p. 33, Jan. 1920**

# Cape Van Lucas

# Extremus micropus

**Vol. 6, No. 1, p. 33, Jan. 1920**

# San Pedro Bay

**Idlaeanthus antrostomus**

**Vol. 6, No. 1, p. 33, Jan. 1920**

**Catalina and Cortez Bank.**

# Lophotes cepedianus

**Vol. 6, No. 1, p. 34, Jan. 1920**

## Long Beach

*Nematodurus acrolepis*

Vol. 6, No. 2, p. 83, Apr. 1920

# Monterey

# Argentina states

Vol. 6, No. 2, p. 87, Apr. 1920

## Huntington Beach

# Lycodopsis pacificus

**Vol. 6, No. 2, p. 87, Apr. 1920**

## Huntington Beach

# Icosteus enigmaticus

**VOL. 7, NO. 2, P. 179 JULY, 1921**

# Monterey Bay



U. S. COMMISSION OF FISH AND FISHERIES,

JOHN J. BRICE, Commissioner.

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A CHECK-LIST

OF THE

FISHES AND FISH-LIKE VERTEBRATES

OF

NORTH AND MIDDLE AMERICA.

BY

DAVID STARR JORDAN, PH. D.,

*President of Leland Stanford Jr. University and of the California  
Academy of Sciences,*

AND

BARTON WARREN EVERMANN, PH. D.,

*Ichthyologist of the United States Fish Commission.*

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Extracted from Report of Commissioner for 1895. Appendix 5, Pages 207 to 584.  
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1896.

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**1377-17**

Crayracion Klein, 1777, Blecher makes type

C. laevissimus Klein = "J. spengleri or very  
near it" Atlas, V, 65, 1865.  
and an Ovoides. But C. laev. is J. lagocepalus. see Hall

Leiodon Sw = Leisomerus Sw. proc. = Chelonada Sw  
in Coleoptis

Type J. marmoratus = J. eulenta Horn Buch. = Telodonta

Blecher makes T. testudinaria L. not Bloch type of  
Telodonta, p. 59. This seems right as it was  
Anomala 1749-1769 Species first called Telodonta by =

Marchus Cantor = Ephippus Cuv. 1829. <sup>1754</sup> <sup>when in 1754 Dureau</sup> orbes

Ephippus Cuv. 1817 = Scalophagus 1829 argus ✓

Platyflorus Klein type marginatus. Blecher  
Atlas I. 108, 1862

Serrinus type young of Strumatus

Otolichia not us.

137747





## 5.—A CHECK-LIST OF THE FISHES AND FISH-LIKE VERTEBRATES OF NORTH AND MIDDLE AMERICA.

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BY

DAVID STARR JORDAN, PH. D.,

*President of Leland Stanford Jr. University and of the California Academy of Sciences,*

AND

BARTON WARREN EVERMANN, PH. D.,

*Ichthyologist of the United States Fish Commission.*

---

### PREFACE.

The present paper is a list of all the species of fishes and fish-like vertebrates thus far recorded as occurring in American waters north of the Isthmus of Panama. For the sake of greater completeness the marine fishes of Guiana, Ecuador, and the Galapagos Islands are included, as all of these are sure, sooner or later, to be found within our limits. In like manner the few species known from Kamchatka are included as part of the fauna of the Alaskan Sea.

The sequence and nomenclature is that of Jordan & Evermann, "Fishes of North and Middle America," a descriptive catalogue forming Bulletin 47 of the United States National Museum. Of this work, Volume I, *Branchiostomatidæ* to *Priacanthidæ*, is now printed, but not published; Volume II is still in manuscript. It is expected that both will be published within the present year. The differences between the nomenclature given in this check-list and that of the work in question arise from the incorporation of new material into the one work after the printing of the other.

In both these memoirs, the rules of nomenclature as laid down by the American Ornithologists' Union have been followed implicitly, with two exceptions. The first of these exceptions concerns Canon XVII, 2, which gives to specific names applied to males precedence over names used for females, when the two occur on the same page. In such cases of synchronous names we have awarded priority to the name standing first on the page, regardless of other considerations. The other exception is the rule abandoning a name (as *Scaphirhynchus*,

*Xiphidion*, *Canthidermis*, etc.) when a prior generic name is of like etymology and of nearly the same spelling (as *Scaphorhynchus*, *Xiphidium*, or *Acanthoderma*). We regard all generic names as different unless originally spelled alike, and the original orthography (misprints aside) is in all cases retained.

With each species is given its geographical range, so far as known, and a reference to the first description under the specific name adopted by us. The locality following this reference is the type locality of the species. The name in parenthesis following the reference to the generic name is that of the species taken by the describer as the type of the genus.

At the end of the catalogue of native species will be found a list of the principal introduced species, especially those which have become well established in American waters.

The authors desire to acknowledge their indebtedness to Dr. Theodore Gill for valuable assistance in various ways in the preparation of this catalogue. His wide acquaintance with zoological literature has enabled them to complete and verify many references which otherwise might have remained incomplete or erroneous.

Thanks are also due Mr. Barton A. Bean for assistance in the verification of references.

DAVID STARR JORDAN.

BARTON WARREN EVERMANN.

PALO ALTO, CALIFORNIA, *May 21, 1896.*



AMPHIOXIDES Quoy. 1825

*A. pelagicus* (Günther) 1889.

*B. caribaeum* Sund.  
St Thomas

*B. floridæ* Hubbs. Occ. Papers  
Univ. Mich. Y. No 105. Jan 1922  
Tampa Bay. (Pensacola; Cape Romano.  
St Martin's Reef. Snapper Banks)

*B. virginica* Hubbs, L.O.S.  
Sewall's Point. Chesapeake 189  
Atlantic Coast generally to Florida

*B. bermudæ* Hubbs. P. 9.  
Bermuda.

*B. elongatum* Sandercock  
Galapagos. Valparaiso  
Sandercock. 1853.

# CHECK-LIST OF THE FISHES AND FISH-LIKE VERTEBRATES OF NORTH AND MIDDLE AMERICA.

## Class I. LEPTOCARDII. The Lancelets.

### Order A. AMPHIOXI. The Cirrostomes.

#### Family I. BRANCHIOSTOMATIDÆ. The Lancelets.

##### Genus 1. BRANCHIOSTOMA Costa.

*Branchiostoma* Costa, Cenni Zoologici Napol., 49, 1834 (*lubricum* = *lanceolatum*).

1. *Branchiostoma lanceolatum* (Pallas). *European Lancelet; Amphioxus*.  
Mediterranean; southern England; Scandinavia; Chesapeake Bay.  
*Limax lanceolatus* Pallas, Spicilegia Zool., x, 19, 1774, Cornwall.
2. *Branchiostoma caribæum* Sundevall. *West Indian Lancelet*.  
~~Atlantic coast of America from Beaufort, N. C., to the mouth of the La Plata;~~  
~~abundant off the Carolina coast and in localities in Florida (Port Tampa),~~  
~~Jamaica, Brazil, etc.~~ *West Indies*  
*Branchiostoma caribæum* Sundevall, Ölfers, Vet. Akad. Förhandl. 1853, 12, St.  
Thomas; ~~Rio Janeiro.~~ *B. platæ* ~~Mull.~~ 10. *La Plata*.
3. *Branchiostoma californiense* Gill. *California Lancelet*.  
Pacific coast of North America from San Diego Bay southward.  
*Branchiostoma californiense* Gill, in Andrews, Studies Biol. Lab. Johns Hopkins  
Univ., v, 241, 1893, San Diego, California.

##### Genus 2. ASYMMETRON Andrews.

*Epigonichthys Peters*

*Asymmetron* Andrews, Studies Biol. Lab. Johns Hopkins Univ., v, 237, 1893  
(*lucayanum*).

4. *Asymmetron lucayanum* Andrews. *Bahama Lancelet*.  
~~Bemini and Nassau, Bahamas.~~ *in Brazil*  
*Asymmetron lucayanum* Andrews, Studies Biol. Lab. Johns Hopkins Univ., v,  
237, 1893, Bemini, Bahama Islands.

## Class II. MARSIPOBRANCHII. The Lampreys.

### Order B. HYPEROTRETI. The Hagfishes.

#### Family II. HEPTATREMIDÆ. The Borers.

##### Genus 3. POLISTOTREMA Gill.

*Epistictus* *Chalchil* *doe*

*Polistotrema* Gill, Proc. U. S. Nat. Mus. 1880, 30 (*dombey*).

5. *Polistotrema stouti* (Lockington). *California Hagfish; Lamperina*.  
Coast of California; Monterey.  
*Bdellostoma stouti* Lockington, Amer. Nat. 1878, 793, Eel River, California.

#### Family III. MYXINIDÆ. The Hagfishes.

##### Genus 4. MYXINE Linnæus.

*Myxine* Linnæus, Systema Naturæ, ed. x, 650, 1758 (*glutinosa*).

6. *Myxine glutinosa* Linnæus. *Hagfish; Borer*.  
North Atlantic, on both coasts. Not abundant in America; south to Delaware.  
*Myxine glutinosa* Linnæus, Syst. Nat., ed. x, 650, 1758, Atlantic Ocean.



## Order C. HYPEROARTII. The Lampreys.

## Family IV. PETROMYZONIDÆ. The Lampreys.

## Genus 5. BATHYMYZON Gill.

*Bathymyzon* Gill, Proc. U. S. Nat. Mus. 1883, 254 (*bairdii*). ? = new? ?

7. *Bathymyzon bairdii* Gill.

Gulf Stream.

*Petromyzon* (*Bathymyzon*) *bairdii* Gill, Proc. U. S. Nat. Mus. 1883, 254, Gulf Stream at lat. 49° N., in 547 fathoms.

## Genus 6. PETROMYZON (Artedi) Linnæus.

*Petromyzon* (Artedi) Linnæus, Systema Naturæ, ed. x, 230, 1758 (*marinus*).

8. *Petromyzon marinus* Linnæus. Great Sea Lamprey; Lamprey Eel.

Atlantic coasts of Europe and North America, southward to Chesapeake Bay.  
*Petromyzon marinus* Linnæus, Syst. Nat., ed. x, 230, 1758, European seas; after Artedi.

8a. *Petromyzon marinus unicolor* (DeKay).

Lakes of northern and central New York.

*Ammocætes unicolor* DeKay, N. Y. Fauna: Fishes, 383, 1842, Lake Champlain.

## Genus 7. ICHTHYOMYZON Girard. River Lampreys.

*Ichthyomyzon* Girard, Pac. R. R. Surv., x, 381, 1858 (*argenteus*).

9. *Ichthyomyzon concolor* (Kirtland). Silvery Lamprey.

Great Lakes, Upper Mississippi Valley, and Rainy River.

*Ammocætes concolor* Kirtland, Bost. Jour. Nat. Hist., III, 1840, 473, with plate, Mahoning and Scioto rivers, Ohio.

10. *Ichthyomyzon castaneus* Girard.

Mississippi Valley.

*Ichthyomyzon castaneus* Girard, Pac. R. R. Surv., x, 381, 1858, Galena, Minn.

## Genus 8. ENTOSPHEENUS Gill.

*Entosphenus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 331 (*tridentatus*).

11. *Entosphenus tridentatus* (Gairdner).

Pacific Coast of America, Unalaska to southern California.

*Petromyzon tridentatus* Gairdner, in Richardson, Fauna Bor.-Am., 293, 1836, Falls of the Walamet (now Willamette) River, Oregon.

## Genus 9. LAMPETRA Gray. Brook Lampreys.

*Lampetra* Gray, Proc. Zool. Soc. Lond. 1851, 235 (*fluvialis*).

12. *Lampetra aurea* (Bean).

Yukon River and streams of Alaska and Kamchatka.

*Ammocætes aureus* Bean, Proc. U. S. Nat. Mus. 1881, 159, Yukon River

13. *Lampetra spadicea* Bean.

Guanajuato, Mexico.

*Lampetra spadicea* Bean, Proc. U. S. Nat. Mus. 1887, 374, Guanajuato.

14. *Lampetra cibaria* (Girard).

Pacific slope of America, from Fraser River to the Sacramento.

*Ammocætes cibarius* Girard, Pac. R. R. Surv., x, 383, 1858, Puget Sound.

15. *Lampetra wilderi* (Gage). Small Black Lamprey; Pride; Prick.

Western New York to Iowa, in tributaries of the Great Lakes and the Mississippi.

*Ammocætes wilderi* Gage, in Wilder Quarter-Century Book, 436, 1893, Cayuga Lake, New York.

*Oceanomyzon* *milnei* Fowler  
Open Atlantic,  
Proc. 1908

*E. cuneirostris*, Pallas

*L. æpyfatera* Abbott = *L. wilsoni*,  
nec Fowler.



**Class III. PISCES. The Fishes.****Subclass SELACHII. The Sharks and Skates.****Order D. DIPLOSPONDYLI. The Notidanoid Sharks.****Family V. CHLAMYDOSELACHIDÆ. The Frilled Sharks.****Genus 10. CHLAMYDOSELACHUS Garman.***Chlamydoselachus* Garman, Bull. Essex Inst., Jan. 17, 1884, 47 (*anguineus*).**16. Chlamydoselachus anguineus Garman.**

Seas about Japan; also off Madeira; not certainly American.

*Chlamydoselachus anguineus* Garman, Bull. Essex Inst., Jan. 17, 1884, 47, off Japan.**Family VI. HEXANCHIDÆ. The Cow Sharks.****Genus 11. NOTORHYNCHUS Ayres.***Notorhynchus* Ayres, Proc. Cal. Ac. Sci., 1, 1856, 72 (*maculatus*).**17. Notorhynchus maculatus Ayres.**

Pacific coast of United States from Monterey northward to Washington.

*Notorhynchus maculatus* Ayres, Proc. Cal. Ac. Sci., 1, 1856, 72, San Francisco.**Genus 12. HEXANCHUS Rafinesque.***Hexanchus* Rafinesque, Caratteri, 14, 1810 (*griseus*).**18. Hexanchus corinus Jordan & Gilbert. Shovel-nosed Shark.**

Monterey Bay to Puget Sound; not common.

*Hexanchus corinus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 352, Neah Bay, Washington, and Soquel, California.**19. Hexanchus griseus (Gmelin). Cow Shark; Caña-Bota.**

Deep water, Mediterranean to the west coast of Scotland; frequently taken in Cuba (Poey).

*Squalus griseus* Gmelin, Syst. Nat., 1, 1495, 1788, Mediterranean; after Broussonet.**Order E. ASTEROSPONDYLI. The Typical Sharks.****Suborder PROARTERI. The Cestraciont Sharks.****Family VII. HETERODONTIDÆ. The Bullhead Sharks.****Genus 13. GYROPLEURODUS Gill.***Gyropleurodus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 489 (*francisci*).**20. Gyropleurodus francisci (Girard). Bullhead Shark.**

Coast of California; abundant south of Point Conception.

*Cestracion francisci* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 196, Monterey.**21. Gyropleurodus quoyi (Fréminville).**

Galapagos Islands.

*Cestracion quoyi* Fréminville, Mag. Zool. 1840, pl. 3, Galapagos Islands.**Suborder GALEI. The True Sharks.****Family VIII. SCYLLIORHINIDÆ. The Cat Sharks.****Genus 14. SCYLLIORHINUS Blainville. Roussettes.***Scylliorhinus* Blainville, Journ. Phys. 1816, 263 (*canicula*, etc.).**22. Scylliorhinus profundorum Goode & Bean.**

Deep water, North Atlantic.

*Scylliorhinus profundorum* Goode & Bean, Oceanic Ichthyology, 17, 1896, Gulf Stream.

Genus 15. CATULUS Smith.

*Catulus* Andrew Smith, Proc. Zool. Soc. Lond. 1837, 85 (*stellaris*).

Subgenus CATULUS Smith.

23. *Catulus xaniurus* Gilbert.

Pacific Coast of southern California.

*Catulus xaniurus* Gilbert, Proc. U. S. Nat. Mus. 1891, 540, off southern and lower California, in 184 to 684 fathoms.

24. *Catulus brunneus* Gilbert.

Gulf of California, in deep water.

*Catulus brunneus* Gilbert, Proc. U. S. Nat. Mus. 1891, 542, Gulf of California.

25. *Catulus cephalus* Gilbert.

Gulf of California and southward, in deep water.

*Catulus cephalus* Gilbert, Proc. U. S. Nat. Mus. 1891, 541, deep water near the Revillagigedo Islands, Mexico, and in the Gulf of California.

26. *Catulus retifer* (Garman).

Gulf Stream, in deep water.

*Scyllium retiferum* Garman, Bull. Mus. Comp. Zool., xi, 233, 1881, off coast of Virginia, in deep water.

Subgenus CEPHALOSCYLLIUM GILL.

*Cephaloscyllium* Gill, Ann. Lyc. Nat. Hist. N. Y. 1861, 407 (*laticeps*).

27. *Catulus uter* Jordan & Evermann. *Swell Shark*.

Monterey to San Diego; very abundant in Santa Barbara Channel.

*Catulus uter* Jordan & Evermann, Fishes North and Middle America, 25, 1896, Monterey, San Diego, and Santa Barbara Channel.

Family IX. GINGLYMOSTOMIDÆ. The Nurse Sharks.

Genus 16. GINGLYMOSTOMA Müller & Henle.

*Ginglymostoma* Müller & Henle, Wiegmann's Archiv, 1837, i, 396.

28. *Ginglymostoma cirratum* (Gmelin). *Nurse Shark; Gata*.

West Indies and the west coast of Mexico; occasional on our South Atlantic Coast.

*Squalus cirratus* Gmelin, Syst. Nat., i, 1492, 1788, American seas; after Broussonet.

Family X. PSEUDOTRIAKIDÆ.

Genus 17. PSEUDOTRIAKIS Capello.

*Pseudotriakis* Capello, Jour. Sci. Math. Phys. Nat. Lisb. 1868, 321 (*microdon*).

29. *Pseudotriakis microdon* Capello.

Portugal; Amagansett, Long Island.

*Pseudotriakis microdon* Capello, Jour. Sci. Math., etc., Lisb. 1868, 321, Portugal.

Family XI. GALEIDÆ. The Requiem Sharks.

Genus 18. MUSTELUS Cuvier. *Valmanhede hamare*,

*Mustelus* Cuvier, Règne Animal, ed. 1, 128, 1817 (*mustelus and canis*).

30. *Mustelus lunulatus* Jordan & Gilbert. *Gato*.

West coast of Mexico. *Co San Diego*

*Mustelus lunulatus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 108, Mazatlan.

31. *Mustelus canis* (Mitchill). *Smooth Hound; Dog Shark; Boca Dulce*.

Cape Cod to Cuba, and in southern Europe.

*Squalus canis* Mitchill, Trans. Lit. Phil. Soc. N. Y., i, 1815, 486, New York.

Calculus Valmont de Bomare 1766.

San Diego: Nov. 1. 1893. Jan 20, 1923 -

Cynias (sin).  
M. laevis or M. musculus L.





**Genus 19. GALEUS Rafinesque.**

*Galeus* Rafinesque, Caratteri Alcuni Nuovi Generi, 13, 1810 (*mustelus*, etc.; the intended type is apparently *Squalus galeus* L., though that species is not mentioned by name).

**32. *Galeus dorsalis* (Gill).**

Panama and neighboring waters, north to the Gulf of California.  
*Mustelus dorsalis* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 149, Panama.

**33. *Galeus californicus* (Gill).**

California, north to San Francisco:  
*Mustelus californicus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 148, San Francisco.

**Genus 20. RHINOTRIACIS Gill.**

*Rhinotriacis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 486 (*henlei*).

**34. *Rhinotriacis henlei* Gill.**

Coast of California, from Humboldt Bay to Monterey; rather rare.  
*Rhinotriacis henlei* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 486, San Francisco.

**Genus 21. TRIAKIS Müller & Henle.**

*Triakis* Müller & Henle, Magazine of Natural History, n. s., II, 1838, 36.

**35. *Triakis semifasciatum* Girard. Cat Shark; Leopard Shark.**

Cape Mendocino to San Diego; common.  
*Triakis semifasciatum* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 196, Presidio de San Francisco.

**Genus 22. GALEORHINUS Blainville.**

*Galeorhinus* Blainville, Bull. Sci. Philom. 1816, 121 (*galeus*).

**36. *Galeorhinus zyopterus* Jordan & Gilbert. Oil Shark; Soup-fin Shark.**

Coast of southern California, from San Francisco to Cerros Island; very abundant.  
*Galeorhinus zyopterus* Jordan & Gilbert, Synopsis, 871, 1883, San Pedro, Cal.

**Genus 23. GALEOCERDO Müller & Henle.**

*Galeocerdo* Müller & Henle, Plagiostomen, 59, 1838 (*tigrinus*).

**37. *Galeocerdo tigrinus* Müller & Henle. Tiger Shark; Alecrin; Tigrone.**

Tropical seas; not rare; occasionally northward to Cape Cod and to San Diego.  
*Galeocerdo tigrinus* Müller & Henle, Plagiostomen, 59, 1838, Pondichery.

**Genus 24. PRIONACE Cantor.**

*Prionace* Cantor, Malayan Fishes, 399, 1850 (substitute for *Prionodon*).

**38. *Prionace glauca* (Linnæus). Great Blue Shark.**

Warm seas, occasionally taken on our coasts; more common in Europe.  
*Squalus glaucus* Linnæus, Syst. Nat., ed. x, 235, 1758, seas of Europe.

**Genus 25. CARCHARHINUS Blainville.**

*Carcharhinus* Blainville, Jour. Phys. 1816, 264 (*commersoni*).

**Subgenus PLATYPODON Gill.**

*Platypodon* Gill, Ann. Lyc. Nat. Hist. N. Y. 1861, 401 (*menisorrah*).

**39. *Carcharhinus obscurus* (LeSueur). Dusky Shark.**

North Atlantic; frequently taken on our coast.  
*Squalus obscurus* LeSueur, Journ. Ac. Nat. Sci. Phila. 1818, 223, New York.

**40. *Carcharhinus platyrhynchus* (Gilbert).**

Magdalena Bay to Galapagos Islands.  
*Eulamia platyrhynchus* Gilbert, Proc. U. S. Nat. Mus. 1891, 544, Clarion Island; Socorro Island; Magdalena Bay.

**41. *Carcharhinus falciformis* (Bibron). *Cazon de Playa*.**

Cuba and neighboring waters.

*Carcharias falciformis* Bibron, in Müller & Henle, Plagiostomen, 47, 1838, Cuba.**42. *Carcharhinus acronotus* (Poey).**

Cuba.

*Squalus acronotus* Poey, Memorias, II, 335, 1861, Havana.**43. *Carcharhinus perezii* (Poey).**

Cuba.

*Platypodon perezii* Poey, Enumeratio, 195, 1875, Cuba.**44. *Carcharhinus remotus* (Valenciennes).**

Martinique.

*Carcharias remotus* Valenciennes, in Duméril, Hist. Nat. Poiss., I, 374, 1870, Martinique.**45. *Carcharhinus henlei* (Valenciennes).**

Coast of Brazil northward to Guiana.

*Carcharias henlei* Valenciennes, in Müller & Henle, Plagiostomen, 46, 1838, Guiana.**Subgenus *CARCHARHINUS* Blainville.****46. *Carcharhinus milberti* (Müller & Henle).**

Cape Cod to Florida; not rare.

*Carcharias (Prionodon) milberti* Müller & Henle, Plagiostomen, 38, 1838, New York.**47. *Carcharhinus lamiella* (Jordan & Gilbert). *Bay Shark*.**

San Diego Bay and southward along the Mexican coast.

*Carcharias lamiella* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 110, San Diego.**48. *Carcharhinus lamia* (Rafinesque). *Cub Shark; Requin; Requiem; Lamia*.**

Tropical parts of the Atlantic northward to Florida Keys.

*Carcharias lamia* Rafinesque, Indice d'Ittiol. Sicil., 44, 1810, Sicily; after Lacépède.**49. *Carcharhinus platyodon* (Poey).**

Cuba to Texas.

*Squalus platyodon* Poey, Memorias, II, 331, 1861, Havana.**50. *Carcharhinus fronto* (Jordan & Gilbert). *Tiburón*.**

Pacific Coast of Mexico.

*Carcharias fronto* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 102, Mazatlan.**51. *Carcharhinus nicaraguensis* (Gill & Bransford). *Tigrone*.**

Lake Nicaragua and its outlet, Rio San Juan; abundant.

*Eulamia nicaraguensis* Gill & Bransford, Proc. Ac. Nat. Sci. Phila. 1877, 190, Lake Nicaragua.**Subgenus *ISOGOMPHODON* Gill.***Isogomphodon* Gill, Ann. Lyc. Nat. Hist. N. Y. 1861, 401 (*oxyrhynchus*).**52. *Carcharhinus æthalarus* (Jordan & Gilbert).**

Mazatlan to Panama.

*Carcharias æthalarus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 104, Mazatlan.**53. *Carcharhinus limbatus* (Müller & Henle). *Caçonetta*.**

Tropical seas, north to Florida; a stray specimen taken at Woods Hole, Mass.

*Carcharias (Prionodon) limbatus* Müller & Henle, Plagiost., 49, 1838, Martinique.**54. *Carcharhinus oxyrhynchus* (Müller & Henle).**

Surinam

*Carcharias oxyrhynchus* Müller & Henle, Plagiostomen, 41, 1838, Surinam.



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**Genus 26. HYPOPRIION Müller & Henle.***Hypoprion* Müller & Henle, Plagiostomen, 34, 1838 (*macloiti*).**55. Hypoprion brevirostris Poey.**

West Indies, north to Charleston, South Carolina.

*Hypoprion brevirostris* Poey, Repertorio, II, 451, tab. 4, 1868, Cuba.**56. Hypoprion signatus Poey.**

Cuba.

*Hypoprion signatus* Poey, Synopsis, 452, 1868, Cuba.**Genus 27. APRIONODON Gill.***Aprionodon* Gill, Ann. Lyc. Nat. Hist. N. Y., VII, 1861, 411 (*punctatus* = *isodon*).**57. Aprionodon isodon (Müller & Henle).**

Atlantic Ocean.

*Carcharias isodon* Müller & Henle, Plagiostomen, 32, 1838, New York.**Genus 28. SCOLIODON Müller & Henle.***Scoliodon* Müller & Henle, Wiegmann's Archiv f. Naturg., I, 398, 1837 (*latiaudus*).**58. Scoliodon longurio (Jordan & Gilbert).**

Pacific Coast of Mexico.

*Carcharias longurio* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 106, Mazatlan.**59. Scoliodon terræ-novæ (Richardson). Sharp-nosed Shark; Tiger Shark.**

Cape Cod to Brazil; very common southward along the Atlantic Coast.

*Squalus* (*Carcharias*) *terræ-novæ* Richardson, Fauna Bor.-Amer., III, 289, 1836, Newfoundland.**Family XII. SPHYRNIDÆ. The Hammer-headed Sharks.****Genus 29. SPHYRNA Rafinesque.***Cetorion Klein**Sphyrna* Rafinesque, Indice d'Ittiol. Siciliana, 60, 1810 (*zygæna*).**Subgenus RENICEPS Gill.***Reniceps* Gill, Ann. Lyc. Nat. Hist. N. Y., VIII, 1861, 412 (*tiburo*).**60. Sphyrna tiburo (Linnæus). Shovel-head Shark; Bonnet-head.**

Atlantic Ocean; abundant on our coast from Long Island southward, ranging to China and Mazatlan.

*Squalus tiburo* Linnæus, Syst. Nat., ed. x, 234, 1758, America.**Subgenus PLATYSQUALUS Swainson.***Platysqualus* Swainson, Class. Anim., II, 318, 1839 ("*tiburo*" = *tudes*).**61. Sphyrna tudes (Cuvier).**

Gulf of California, West Indies, Mediterranean, and Indian Ocean.

*Zygæna tudes* Cuvier, in Valenciennes, Mém. Mus., IX, 225, 1822, Nice; after Pantouffier of Risso.**Subgenus SPHYRNA Rafinesque.****62. Sphyrna zygæna (Linnæus). Hammer-headed Shark.**

From Cape Cod and Point Conception southward.

*Squalus zygæna* Linnæus, Syst. Nat., ed. x, 234, 1758, Europe; America.**Family XIII. ALOPIIDÆ. The Thresher Sharks.****Genus 30. ALOPIAS Rafinesque.***Vulpesula Valenciennes**Alopias* Rafinesque, Caratteri di Alcuni Generi, etc., 12, 1810 (*macrurus* = *vulpes*).**63. Alopias vulpes (Gmelin). Thresher; Fox Shark; Swingle-tail; Long-tail Shark.**

Mediterranean and Atlantic; Pacific Coast.

*Squalus vulpes* Gmelin, Syst. Nat., I, 1496, 1788, Mediterranean; after Pennant.*V. macrurus Valenciennes*



## Family XIV. CARCHARIIDÆ. The Sand Sharks.

## Genus 31. CARCHARIAS Rafinesque.

*Carcharias* Rafinesque, Caratteri di Alcuni Nuovi Generi, 10, 1810 (*taurus*).

## Subgenus EUGOMPHODUS Gill.

*Eugomphodus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 260 (*littoralis*).

64. *Carcharias littoralis* (Mitchill). Sand Shark.

Atlantic Coast between Cape Cod and Cape Hatteras.

*Squalus littoralis* Mitchill, Am. Monthly Mag., II, 1818, 328, New York.

## Family XV. LAMNIDÆ. The Mackerel Sharks.

## Genus 32. ISURUS Rafinesque.

*Isurus* Rafinesque, Caratteri di Alcuni Nuovi Generi, 11, 1810 (*oxyrhynchus*).

## Subgenus ISUROPSIS Gill.

*Isuropsis* Gill, Ann. Lyc. Nat. Hist. N. Y., VII, 1862, 409 (*dekayi*).

65. *Isurus dekayi* (Gill). Mackerel Shark. *glancu*

Cape Cod to West Indies.

*Isuropsis dekayi* Gill, Ann. Lyc. N. Y., VII, 1862, 409; after DeKay.

## Subgenus ISURUS Rafinesque.

66. *Isurus oxyrhynchus* Rafinesque. Mackerel Shark; Pesce Tondo; Cane di Mare. *J. Lign's Atwood*

Mediterranean and neighboring parts of the Atlantic; occasional on Atlantic coast of North America.

*Isurus oxyrhynchus* Rafinesque, Caratteri, etc., 12, 1810, Palermo

## Genus 33. LAMNA Cuvier. Porbeagles.

*Lamna* Cuvier, Règne Animal, ed. I, 126, 1817 (*cornubicus*).

67. *Lamna cornubica* (Gmelin). Porbeagle; Mackerel Shark. *nam Bonaterre*

North Atlantic and North Pacific.

*Squalus cornubicus* Gmelin, Syst. Nat., I, 1497, 1788, shores of Cornwall.

## Genus 34. CARCHARODON Smith. Man-eater Sharks.

*Carcharodon* Andrew Smith, Proc. Geol. Soc. Lond., V, 86, 1837 (*capensis* = *carcharias*).

68. *Carcharodon carcharias* (Linnæus). Man-eater Shark; Great White Shark.

Temperate and tropical parts of the Atlantic and the Pacific.

*Squalus carcharias* Linnæus, Syst. Nat., ed. X, 235, 1758, Europe.

## Family XVI. CETORHINIDÆ. The Basking Sharks.

## Genus 35. CETORHINUS Blainville.

*Cetorhinus* Blainville, Journ. Phys. 1816, 264 (*gunneri* = *maximus*).

69. *Cetorhinus maximus* (Gunner). Basking Shark; Pelerin; Elephant Shark.

Arctic seas, Portugal, Virginia, and California.

*Squalus maximus* Gunner, Trondhjem Selskabskr., III, 33, 1765, coast of Norway.

## Family XVII. RHINODONTIDÆ. The Whale Sharks.

## Genus 36. MICRISTODUS Gill.

*Micristodus* Gill, Proc. Ac. Nat. Sci. Phila. 1865, 177 (*punctatus*).

70. *Micristodus punctatus* Gill.

Gulf of California.

*Micristodus punctatus* Gill, Proc. Ac. Nat. Sci. Phila. 1865, 177, Gulf of California.

= *Q. laevis* Raf. *Fide Gorman*

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6 7. *Salmon Shark*, at Kodiak,  
Monhegan I. Me.

*Rhinodon typicus*, 1829

Benedict D. Stejneger

! *Tricus pennatus*

Order F. **CYCLOSPONDYLI.** The Cyclospondylous Sharks.Suborder **CYCLOSPONDYLI.**Family **XVIII. SQUALIDÆ.** The Dogfishes.Genus 37. **SQUALUS** (Artedi) Linnæus.

*Squalus* (Artedi) Linnæus, Syst. Nat., ed. x, 233, 1758 (includes all sharks).

71. **Squalus acanthias** Linnæus. *Dogfish; Picked Dogfish; Bonedog; Skittle-dog.*  
North Atlantic on both coasts and about Cuba.

*Squalus acanthias* Linnæus, Syst. Nat., ed. x, 233, 1758, coast of <sup>W. A.</sup>Europe.

72. **Squalus sucklii** (Girard). *California Dogfish*

Aleutian Islands to Santa Barbara.

*Spinax (Acanthias) sucklii* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 196, Fort Steila  
coom, Washington.

Genus 38. **CENTROSCYMNUS** Bocage & Capello.

*Centrosymnus* Bocage & Capello, Proc. Zool. Soc. Lond. 1864, 263 (*cœlolepis*).

73. **Centrosymnus cœlolepis** Bocage & Capello.

Coast of Portugal and neighboring parts of the Atlantic; Gloucester, Mass.  
and Nova Scotia Banks.

*Centrosymnus cœlolepis* Bocage & Capello, Proc. Zool. Soc. Lond. 1864, 263  
Portugal.

Genus 39. **ETMOPTERUS** Rafinesque.

*Etmopterus* Rafinesque, Caratteri, etc., 14, 1810 (*aculeatus*).

74. **Etmopterus pusillus** (Lowe).

Madeira, Cuba, and Cape Verdes.

*Acanthidium pusillum* Lowe, Proc. Zool. Soc. Lond. 1839, 91, Madeira.

Genus 40. **CENTROSCYLLIUM** Müller & Henle.

*Centrosyllium* Müller & Henle, Plagiostomen, 191, 1838 (*fabricii*).

75. **Centrosyllium fabricii** (Reinhardt).

Greenland seas, Gloucester, and the Nova Scotia Banks.

*Spinax fabricii* Reinhardt, Dansk. Vid. Selsk. Forh., 1828, III, XVI, Greenland.

Family **XIX. SOMNIOSIDÆ.** The Scymnoid Sharks.Genus 41. **SOMNIOSUS** LeSueur.

*Somniosus* LeSueur, Jour. Ac. Nat. Sci. Phila. 1818, 222 (*brevipinna* = *microcephalus*).

76. **Somniosus microcephalus** (Bloch). *Sleeper Shark; Nurse.*

Arctic seas, south to Cape Cod, Oregon, and France.

*Squalus microcephalus* Bloch & Schneider, Syst. Ichth., 135, 1801, northern seas.

Family **XX. ECHINORHINIDÆ.** The Bramble Sharks.Genus 42. **ECHINORHINUS** Blainville.

*Echinorhinus* Blainville, Bull. Soc. Philom. 1816, 121 (*spinosus*).

77. **Echinorhinus spinosus** (Gmelin).

Atlantic coasts of Europe, America, and Africa.

*Squalus spinosus* Gmelin, Syst. Nat., I, 1500, 1788, "the ocean."

Suborder TECTOSPONDYLI.

Family XXI. SQUATINIDÆ. The Angel Sharks.

Genus 43. SQUATINA Duméril.

*Squatina* Duméril, Zool. Analyt., 102, 1806 (*angelus* = *squatina*).

78. *Squatina squatina* (Linnæus). *Monk-fish*; *Angel-fish*; *Squato*.

Atlantic and Pacific coasts of the United States southward from Cape Cod and San Francisco; Mediterranean.

*Squalus squatina* Linnæus, Syst. Nat., ed. x, 233, 1758, coasts of Europe.

Order G. BATOIDEI. The Rays.

Suborder SARCURA. The Thick-tailed Rays.

Family XXII. PRISTIDÆ. The Sawfishes.

Genus 44. PRISTIS Latham.

*Pristis* Latham, Trans. Linn. Soc., II, 1794, 276 (*pristis*).

79. *Pristis zephyreus* Jordan & Starks. *Pez de Espada*.

Tropical seas, north to Mazatlan on the Pacific Coast; the West Indies.

*Pristis zephyreus* Jordan & Starks, Fishes of Sinaloa, 11, 1895, Mazatlan, Mexico.

80. *Pristis pectinatus* Latham. *Common Sawfish*; *Pez Sierra*; *Pez de Espada*.

Tropical seas; north to West Indies and Florida.

*Pristis pectinatus* Latham, Trans. Linn. Soc., II, 1794, 278, "in the ocean."

Family XXIII. RHINOBATIDÆ. The Guitar-Fishes.

Genus 45. RHINOBATUS Bloch & Schneider. *Guitar-fishes*.

*Rhinobatus* Bloch & Schneider, Syst. Ichth., 353, 1801 (*rhinobatus*).

81. *Rhinobatus lentiginosus* Garman.

From Charleston, South Carolina, southward.

*Rhinobatus lentiginosus* Garman, Bull. M. C. Z., VI, 168, 1880, coast of Florida.

82. *Rhinobatus stellio* Jordan & Rutter.

Jamaica.

*Rhinobatus stellio* Jordan & Rutter, Fishes of Jamaica, 1896, Jamaica.

83. *Rhinobatus glaucostigma* Jordan & Gilbert. *Guitarro*.

Gulf of California and southward.

*Rhinobatus glaucostigma* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1883, 210, Mazatlan.

84. *Rhinobatus leucorhynchus* Günther.

Panama and vicinity.

*Rhinobatus leucorhynchus* Günther, Proc. Zool. Soc. Lond. 1866, 604, Panama.

85. *Rhinobatus productus* Ayres. *Guitar-fish*.

San Francisco to San Diego.

*Rhinobatus productus* Ayres, in Girard, Proc. Ac. Nat. Sci. Phila. 1854, 196, Monterey.

86. *Rhinobatus percellens* (Walbaum). *Fiddler-fish*; *Puraque*.

West Indies to southern Brazil.

*Raja percellens* Walbaum, Artedi Piscium, 525, 1792; after Marcgrave.

87. *Rhinobatus spinosus* Günther.

Mexico.

*Rhinobatus spinosus* Günther, Cat., VIII, 518, 1870, Mexico.

88. *Rhinobatus planiceps* Garman.

Coast of Peru and Galapagos Islands.

*Rhinobatus planiceps* Garman, Bull. M. C. Z., VI, 168, 1880, Peru; Galapagos.

Rhunia, Kleini

manuscript. 18.11.18.18.

Rhinobatos Lück.

R. Kleini

is Garman

Rufa stabilifrons Garman  
see Garman

## Genus 46. ZAPTERYX Jordan &amp; Gilbert.

*Zapteryx* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 53 (*exasperatus*).89. *Zapteryx exasperatus* (Jordan & Gilbert).

San Diego Bay.

*Platyrrhina exasperata* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 32, San Diego.90. *Zapteryx xyster* Jordan & Evermann.

Panama.

*Zapteryx xyster* Jordan & Evermann, Fishes North and Middle America, 65, 1896, Panama.

## Genus 47. PLATYRRHINOIDIS Garman.

*Platyrrhinoidis* Garman, Proc. U. S. Nat. Mus. 1880, 522 (*triseriatus*).91. *Platyrrhinoidis triseriatus* (Jordan & Gilbert).

Coast of California from Point Conception southward.

*Platyrrhina triseriata* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 36, Santa Barbara, California.

## Family XXIV. RAJIDÆ. The Skates.

## Genus 48. RAJA (Artedi) Linnæus.

*Raja* (Artedi) Linnæus, Syst. Nat., ed. x, 231, 1758 (*batis*).92. *Raja erinacea* Mitchill. *Common Skate; Little Skate; Tobacco Box.*

Very abundant from Virginia northward to Maine.

*Raja erinacea* Mitchill, Am. Jour. Sci. Arts, xi, 1825, 290, New York.93. *Raja ocellata* Mitchill. *Big Skate.*

Coast of New York, Massachusetts, and northward.

*Raja ocellata* Mitchill, Trans. Lit. Phil. Soc., i, 1815, 477, New York.94. *Raja fyllæ* Lütken.

Davis Straits, Greenland.

*Raja fyllæ* Lütken, Vid. Medd. Naturh. Foren. Kjöbenh. 1887, 1, pl. 1, Davis Straits.95. *Raja radiata* Donovan.*Scabrata Garman*

North Atlantic; both in America and Europe; not common on our coast.

~~*Raja radiata* Donovan, Hist. Brit. Fishes, v, pl. 114, 1820, Great Britain.~~96. *Raja plutonia* Garman.

Deep water off South Carolina.

*Raja plutonia* Garman, Bull. Mus. Comp. Zool., xi, 236, 1881, off South Carolina.97. *Raja ackleyi* Garman.

Yucatan Banks.

*Raja ackleyi* Garman, Bull. Mus. Comp. Zool., xi, 235, 1881, Yucatan Banks.98. *Raja ornata* Garman.

Coast of South Carolina and Florida.

*Raja ornata* Garman, Bull. Mus. Comp. Zool., xi, 235, 1881, off South Carolina.99. *Raja eglanteria* Bosc.

Cape Cod, southward to Florida; not very common.

*Raja eglanteria* Bosc, in Lacépède, Hist. Nat. Poiss., ii, 103, 1800, Charleston, S. C.100. *Raja senta* Garman.

Banks of Newfoundland to Cape Cod; in deep water.

*Raja senta* Garman, Proc. U. S. Nat. Mus. 1885, 43, Cape Cod Bay; Le Have Bank.101. *Raja laevis* Mitchill. *Barn-door Skate.*

New England to Florida; not uncommon northward.

*Raja laevis* Mitchill, Amer. Monthly Mag., ii, 1817, 327, New York.*mael*



102. *Raja rhina* Jordan & Gilbert.

Monterey to Alaska; not rare, especially northward.

*Raja rhina* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 251, Monterey; San Francisco.

103. *Raja binoculara* Girard. *Big Skate of California.*

Pacific Coast from Monterey to Sitka; abundant.

*Raja binoculara* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 196, San Francisco.

104. *Raja inornata* Jordan & Gilbert. *Common Skate of California.*

Coast of California; very abundant.

*Raja inornata* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 457, San Francisco.

105. *Raja equatorialis* Jordan & Bollman.

West coast of Colombia, between Panama and the Galapagos Islands.

*Raja equatorialis* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 150, off Colombia.

106. *Raja parmifera* Bean.

Coast of Alaska.

*Raja parmifera* Bean, Proc. U. S. Nat. Mus. 1881, 157, Unalaska.

107. *Raja stellulata* Jordan & Gilbert.

Coast of California and northward.

*Raja stellulata* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 133, Monterey.

108. *Raja aleutica* Gilbert & Thoburn.

Unalaska, Aleutian Islands.

*Raja aleutica* Gilbert, Rept. U. S. Fish. Com. 1893 (1896), 397, pl. 21, Sannak Pass, Aleutian Islands, at Albatross Station 3257, in 81 fathoms.

109. *Raja trachura* Gilbert.

Santa Barbara Channel.

*Raja trachura* Gilbert, Proc. U. S. Nat. Mus. 1891, 539, off Santa Barbara, at Albatross Station 2923, in 822 fathoms.

110. *Raja abyssicola* Gilbert.

Queen Charlotte Island, British Columbia, in deep water.

*Raja abyssicola* Gilbert, Rept. U. S. Fish. Com. 1893 (1896), 396, pl. 20, off Queen Charlotte Island, at Albatross Station 3342, in 1,588 fathoms.

Family XXV. NARCOBATIDÆ. The Electric Rays.

Genus 49. TETRANARCE Gill.

*Tetranarce* Gill, Ann. Lyc. Nat. Hist. N. Y., VII, 1861, 387 (*occidentalis*).

111. *Tetranarce occidentalis* (Storer). *Cramp-fish; Torpedo; Numb-fish.*

Atlantic Coast of United States, Cape Cod to Cuba; not very common.

*Torpedo occidentalis* Storer, Am. Jour. Sci. Arts 1843, 165, Massachusetts.

112. *Tetranarce californica* (Ayres). *California Torpedo*

Coast of California; not noticed south of Monterey.

*Torpedo californica* Ayres, Proc. Cal. Ac. Sci. 1854, 70, San Francisco.

Genus 50. NARCINE Henle.

*Narcine* Henle, Ueber Narcine, 31, 1834 (*brasiliensis*).

113. *Narcine brasiliensis* (Ölfers). *Trembler.*

West Indies and Brazil, occasionally northward to Key West and Pensacola.

*Torpedo brasiliensis* Ölfers, Torpedo, 19, 1831, Brazil.

Genus 51. DISCOPYGE Tschudi.

*Discopyge* Tschudi, Fauna Peruana, 32, 1844 (*tschudii*).

114. *Discopyge ommata* Jordan & Gilbert.

Panama; rare.

*Discopyge ommata* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1889, 151, Panama.

*Raja rosispinis* Gill & Townsend  
= *Raja oblonga*. both young males  
Benig Sea

*Raja interrupta* Gill & Townsend.  
Benig Sea.

*Nareacua* Klein,  
~~Dorpeda~~ valmont?

Garman divides  
urolophus into three

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## Suborder MASTICURA. The Whip-tailed Rays.

## Family XXVI. DASYATIDÆ. The Sting Rays.

## Genus 52. UROLOPHUS Müller &amp; Henle. Round Sting Rays.

*Urolophus* Müller & Henle, Plagiostomen, 173, 1838 (*aurantiacus* = *cruciatus*).

115. *Urolophus halleri* Cooper.

Coast of California from Point Conception southward.

*Urolophus halleri* Cooper, Proc. Cal. Ac. Sci., III, 1863, 95, San Diego.

116. *Urolophus nebulosus* Garman.

Gulf of California to Panama.

*Urolophus nebulosus* Garman, Proc. U. S. Nat. Mus. 1885, 41, Colima.

117. *Urolophus umbrifer* Jordan & Starks.

West coast of Mexico.

*Urolophus umbrifer* Jordan & Starks, in Jordan, Fishes of Sinaloa, 17, 1895, Mazatlan, Mexico.

118. *Urolophus jamaicensis* (Cuvier) *Maid.*

West Indies, generally common; once (perhaps doubtfully) recorded from New Jersey.

*Raja jamaicensis* Cuvier, Règne Animal, ed. 1, 137, 1817, Jamaica.

119. *Urolophus mundus* (Gill).

Panama.

*Urotrygon mundus* Gill, Proc. U. S. Nat. Mus. 1863, 173, Panama.

120. *Urolophus goodei* Jordan & Bollman.

Panama.

*Urolophus goodei* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 151, near Panama.

121. *Urolophus aspidurus* Jordan & Gilbert.

Panama.

*Urolophus aspidurus* Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 307, Panama.

122. *Urolophus asterias* Jordan & Gilbert. = *mundus*

Mazatlan to Panama.

*Urolophus asterias* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 579, Mazatlan; Panama.

123. *Urolophus rogersi* Jordan & Starks.

West coast of Mexico.

*Urolophus rogersi* Jordan & Starks, in Jordan, Fishes of Sinaloa, 16, 1895, Mazatlan, Mexico.

Genus 53. DASYATIS Rafinesque. Sting Rays. *Dasybatus Klein*

*Dasyatis* Rafinesque, Caretteri di Alcuni Nuovi Gen., 16, 1810 (*njo* = *pastinaca*).

## Subgenus HEMITRYGON Müller &amp; Henle.

*Hemitrygon* Müller & Henle, Mag. Nat. Hist. 1837, 90 (*bennetti*).

124. *Dasyatis centrura* (Mitchill). Common Sting Ray; Stingaree; Clam Cracker.

Coast of Maine to Cape Hatteras; abundant.

*Raja centrura* Mitchill, Trans. Lit. Phil. Soc. N. Y., I, 1815, 479, New York.

## Subgenus DASYATIS Rafinesque.

125. *Dasyatis hastata* (DeKay). Kit.

West Indies to Brazil, north to Florida and Rhode Island.

*Trygon hastata* DeKay, N. Y. Fauna: Fishes, 373, pl. 65, fig. 214, 1842, Rhode Island.

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### 126. *Dasyatis gymnura* (Müller).

Surinam to Brazil, recorded from Grenada by Günther.

*Trygon gymnura* Müller, *Ermann's Reise um die Erde*, 25, taf. 13, 1830, Brazil.

### 127. *Dasyatis sabina* (LeSueur).

Streams and estuaries of Florida, abundant on both coasts.

*Trygon sabina* LeSueur, *Jour. Ac. Nat. Sci. Phila.*, iv, 1824, 109, Florida.

### 128. *Dasyatis longa* (Garman).

Gulf of California to Panama.

*Dasibatia longa* Garman, *Bull. Mus. Comp. Zool.*, vi, 170, 1880, Acapulco, Panama.

### 129. *Dasyatis dipterura* (Jordan & Gilbert).

Bay of San Diego, and southward; locally abundant.

*Dasybatis dipterurus* Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1880, 31, San Diego.

### 130. *Dasyatis say* (LeSueur). *Southern Sting Ray*.

Carolina to Brazil; common in Florida, occasional northward to New York.

*Raja say* LeSueur, *Jour. Ac. Nat. Sci. Phila.*, i, 1817, 42, New Jersey.

### Genus 54. *PTEROPLATEA* Müller & Henle.

*Pteroplatea* Müller & Henle, *Plagiostomen*, 168, 1838 (*altavela*).

### 131. *Pteroplatea maculura* (LeSueur). *Butterfly Ray*.

Rhode Island to Brazil.

*Raia maculura* LeSueur, *Jour. Ac. Nat. Sci. Phila.* 1817, 41, Rhode Island.

### 132. *Pteroplatea crebripunctata* Peters.

Gulf of California southward, along the west coast of Mexico; common.

*Pteroplatea crebripunctata* Peters, *Monatsber. Berl. Akad.* 1869, 703, Mazatlan.

### 133. *Pteroplatea rava* Jordan & Starks. *Manataria Colorada*; *Manta Raia*.

West coast of Mexico.

*Pteroplatea rava* Jordan & Starks, in Jordan, *Fishes of Sinaloa*, 18, 1895. Mazatlan, Mexico.

### 134. *Pteroplatea marmorata* Cooper.

Coast of California, from Point Conception southward to Cerros Island; common.

*Pteroplatea marmorata* Cooper, *Proc. Cal. Ac. Sci.*, iii, 1863, 112, San Diego.

## Family XXVII. MYLIOBATIDÆ. The Eagle Rays.

### Genus 55. *AETOBATUS* Blainville.

*Aëtobatus* Blainville, *Jour. de Phys.*, LXXXIII, 1816, 261 (*vulgaris*, *narinari*, etc.).

### 135. *Aetobatus narinari* (Euphrasen). *Spotted Sting Ray*.

Tropical seas, north on Atlantic Coast to Virginia; not common on our shores.

*Raia narinari* Euphrasen, *Vet. Ak. Nya. Handl.*, xi, 1790, 217, Brazil.

### Genus 56. *MYLIOBATIS* Duméril.

*Myliobatis* Duméril, in Cuvier, *Règne Animal*, ii, 137, 1817 (*aquila*).

### Subgenus *MYLIOBATIS* Duméril.

### 136. *Myliobatis freminvillei* LeSueur.

Cape Cod to Brazil; not uncommon.

*Myliobatis freminvillei* LeSueur, *Jour. Ac. Nat. Sci. Phila.*, iv, 1824, 111, Rhode Island.

### 137. *Myliobatis goodei* Garman.

Central America.

*Myliobatis goodei* Garman, *Proc. U. S. Nat. Mus.* 1885, 39, Central America.

*Micrura*

^ Sumner

*P. altavela*

Penzance Pt. Buzzards B. Nichols  
Cop. Sept 15, 1922

Common at Tagellau, to Panama.

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*Ceralebutis roboratus* Boulenger.

*Ch. pinnatus*  
*affinis*  
*C. affinis*

Subgenus **HOLORHINUS** Gill.*Holorhinus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 331 (*vespertilio* = *californicus*).138. *Myliobatis californicus* Gill. *California Sting Ray; Batfish.*

California, from Cape Mendocino southward.

*Myliobatis californicus* Gill, Ann. Lyc. Nat. Hist. N. Y. 1865, 137; after Girard.Genus 57. **RHINOPTERA** Kuhl.*Rhinoptera* Kuhl, in Cuvier, Règne Animal, ed. 2, vol. II, 401, 1829 (*marginata*).Subgenus **RHINOPTERA** Kuhl.139. *Rhinoptera bonasus* (Mitchill). *Cow-nose Ray.*

Cape Cod to Florida.

*Raja bonasus* Mitchill, Trans. Lit. and Phil. Soc. N. Y. 1815, 479, New York.140. *Rhinoptera steindachneri* Evermann & Jenkins. *Gabilan.*

Gulf of California.

*Rhinoptera steindachneri* Evermann & Jenkins, Proc. U. S. Nat. Mus. 1891, 130, pl. 1, fig. 1, Guaymas, Sonora, Mexico.Subgenus **MICROMESUS** Gill.*Micromesus* Gill, Ann. Lyc. Nat. Hist. N. Y. 1865, 136 (*adpersus*).141. *Rhinoptera ensenadae* Rosa Smith.

West coast of Lower California.

*Rhinoptera ensenadae* Rosa Smith, Proc. U. S. Nat. Mus. 1886, 220, Ensenada, Lower California.Family **XXVIII. MOBULIDÆ. The Sea Devils.**Genus 58. ~~AODON~~ Lacépède. *MOBULA* Rafinesque.  
*Aodon* Lacépède, Hist. Nat. Poiss., 1, 300, 1798 (*massassa*).142. *Aodon hypostomus* (Bancroft).

Jamaica.

*Cephalopterus hypostomus* Bancroft, Proc. Comm. Zool. Soc. 1830, 134, Jamaica.Genus 59. **MANTA** Bancroft.*Manta* Bancroft, Zool. Jour., IV, 1828-29, 444 (*manta* = *birostris*).143. *Manta birostris* (Walbaum). *Sea Devil; Devil-fish; Manta.*

Tropical waters of America; north to New Jersey and San Diego; not rare on the Florida coast.

*Raja birostris* Walbaum, Artedi Piscium, 535, 1792; after *Diabolus marinus* Willughby, etc.Subclass **HOLOCEPHALI. The Chimæras.**Order H. **CHIMÆEROIDEI. The Chimæroids.**Family **XXIX. CHIMÆERIDÆ. The Chimæras.**Genus 60. **CHIMÆRA** Linnæus. *Elephant-fishes.**Chimæra* Linnæus, Syst. Nat., ed. x, 236, 1758 (*monstrosa*).144. *Chimæra monstrosa* Linnæus. *Chimæra.*

Deep waters off the coast of Europe; also recorded by Poey at Matanzas, Cuba.

*Chimæra monstrosa* Linnæus, Syst. Nat., ed. x, 236, 1758, Atlantic.145. *Chimæra affinis* Capello.

Deep waters of the Atlantic, off Portugal and off the American coast from Cape Cod northward.

*Chimæra affinis* Capello, Jour. Soc. Math. Lisbon, IV, 1868, 314, pl. III, coast of Portugal.



Genus 61. **HYDROLAGUS** Gill.

*Hydrolagus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 331 (*collieri*).

146. **Hydrolagus collieri** (Lay & Bennett). *Rat-fish; Elephant-fish.*

Pacific Coast from Monterey northward to Alaska.

*Chimara collieri* Lay & Bennett, Beechey's Voy., Zool., 71, 1849, North Pacific.

Genus 62. **HARRIOTTA** Goode & Bean.

*Harriotta* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (Jan. 26, 1895), 471 (*raleighana*).

147. **Harriotta raleighana** Goode & Bean.

Deep water off the North Atlantic Coast of the United States.

*Harriotta raleighana* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (Jan. 26, 1895), 472, pl. 19, Gulf Stream at 39° N., 70° W.

Subclass **TELEOSTOMI**. The True Fishes.

Series **GANOIDEI**. The Ganoid Fishes.

Superorder **CHONDROGANOIDEA**. The Cartilaginous Ganoids.

Order I. **SELACHOSTOMI**. The Paddle-fishes.

Family **XXX. POLYODONTIDÆ**. The Paddle-fishes.

Genus 63. **POLYODON** Lacépède.

*Polyodon* Lacépède, Hist. Nat. Poiss., I, 402, 1798 (*feuille*).

148. **Polyodon spathula** (Walbaum). *Paddle-fish; Spoon-bill Cat; Duck-bill Cat; Spade-fish.*

Mississippi Valley and rivers of the Southern States; Lake Erie.

*Squalus spathula* Walbaum, Artedi Piscium, 522, 1792, no locality given.

Order J. **CHONDROSTEI**. The Sturgeons.

Family **XXXI. ACIPENSERIDÆ**. The Sturgeons.

Genus 64. **ACIPENSER** Linnæus. *Sturgeons.*

*Acipenser* (Artedi) Linnæus, Syst. Nat., ed. x, 237, 1758 (*sturio*).

149. **Acipenser transmontanus** Richardson. *White Sturgeon; Oregon Sturgeon; Sacramento Sturgeon.*

Pacific Coast, from Alaska south to Monterey; ascending the Sacramento, Columbia, and Fraser rivers in large numbers in spring.

*Acipenser transmontanus* Richardson, Fauna Bor.-Amer., III, 278, 1836, Fort Vancouver.

150. **Acipenser medirostris** Ayres. *Green Sturgeon.*

Pacific Coast; ascending the rivers from San Francisco northward.

*Acipenser medirostris* Ayres, Proc. Cal. Ac. Sci., I, 1854, 15, San Francisco.

151. **Acipenser sturio** Linnæus. *Common Sturgeon.*

Atlantic coasts; ascending rivers of northern Europe and the United States.

*Acipenser sturio* Linnæus, Syst. Nat., ed. x, 237, 1758, seas of Europe.

152. **Acipenser rubicundus** LeSueur. *Lake Sturgeon; Ohio Sturgeon; Stone Sturgeon; Rock Sturgeon; Red Sturgeon.*

Upper Mississippi Valley, Great Lakes, and northward.

*Acipenser rubicundus* LeSueur, Trans. Amer. Phil. Soc., I, 1818, 388, Lakes Ontario, Erie, and all the upper lakes.



new James.  
Forbes,

*Myiophobus neobiceps*  
Lancaster, Kansas  
megaleps. Bayport, Tex  
Forbes, Boe  
1910

Regan has several  
also,

**153. *Acipenser brevirostris* LeSueur. Short-nosed Sturgeon.**

Cape Cod to Florida; rare northward.

*Acipenser brevirostrum* LeSueur, Trans. Amer. Phil. Soc., 1, 1818, 390, Delaware River.**Genus 65. SCAPHIRHYNCHUS Heckel. Shovel-nose Sturgeons.***Scaphirhynchus* Heckel, Ann. Wiener Mus. Naturgesch., 1, 1835, 71 (*rafinesquei* = *platorhynchus*).**154. *Scaphirhynchus platorhynchus* (Rafinesque). Shovel-nose Sturgeon; White Sturgeon.**

Mississippi Valley, and streams of Western and Southern States; common.

*Acipenser platorhynchus* Rafinesque, Ichth. Ohiensis, 80, 1820, Ohio River.**Subclass HOLOSTEI. The Bony Ganoids.****Order K. RHOMBOGANOIDEA. The Gar Pikes.****Family XXXII. LEPISOSTEIDÆ. The Gar Pikes.****Genus 66. LEPISOSTEUS Lacépède.***Psalisostomus Klein**Lepisosteus* Lacépède, Hist. Nat. Poiss., v, 331, 1803 (*gavialis* = *osseus*).**Subgenus LEPISOSTEUS Rafinesque.****155. *Lepisosteus osseus* (Linnæus). Long-nosed Gar; Billfish; Common Gar Pike.**

Great Lakes and rivers of United States from Vermont to the Rio Grande.

*Esox osseus* Linnæus, Syst. Nat., ed. x, 313, 1758; after Artedi, based on *Aous maxima squamosa viridis*.**Subgenus CYLINDROSTEUS Rafinesque.***Cylindrostus* Rafinesque, Ichth. Ohiensis, 72, 1820 (*platostomus*).**156. *Lepisosteus platostomus* Rafinesque. Short-nosed Gar.**

Great Lakes and Southern and Western rivers; less abundant northward.

*Lepisosteus platostomus* Rafinesque, Ichth. Ohiensis, 72, 1820, Ohio River.**Subgenus ATRACTOSTEUS Rafinesque.***Atractosteus* Rafinesque, Ichth. Ohiensis, 72, 1820 (*ferox*).**157. *Lepisosteus tristoechus* (Bloch & Schneider). Alligator Gar; Great Gar; Manjuri.**

Rivers of the Southern States; Cuba and northern Mexico; north to St. Louis and Cincinnati.

*Esox tristoechus* Bloch & Schneider, Syst. Ichth., 395, 1801, Cuba; after Manjuri of Para.**158. *Lepisosteus tropicus* (Gill).**

Streams of the Pacific Coast of Central America.

*Atractosteus tropicus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 172, streams near Panama.**Order L. CYCLOGANOIDEA. The Bowfins.****Family XXXIII. AMIIDÆ. The Bowfins.****Genus 67. AMIA Linnæus. Bowfins.***AMIA TUS Rafinesque**Amia* Linnæus, Syst. Nat., ed. xii, 500, 1766 (*calva*).**159. *Amia calva* Linnæus. Mudfish; Dogfish; Bowfin; Grindie; "John A. Grindie"; Lawyer; Poisson de Marais.**

Great Lakes and sluggish waters from Minnesota to Virginia, Florida, and Texas; abundant.

*Amia calva* Linnæus, Syst. Nat., ed. xii, 500, 1766, Charleston, South Carolina.

## Series TELEOSTEI. The Bony Fishes.

## Subclass OSTARIOPHYSI.

## Order M. NEMATOGNATHI. The Catfishes.

## Family XXXIV. SILURIDÆ. The Catfishes.

## Genus 68. FELICHTHYS Swainson. Gaff-topsail Catfishes.

*Felichthys* Swainson, Nat. Hist. Fishes, II, 305, 1839, substitute for *Brericeps* (bagre).

160. *Felichthys panamensis* (Gill).

Mazatlan to Panama; common.

*Ailurichthys panamensis* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 172, Panama.

161. *Felichthys bagre* (Linnæus).

Coast of Brazil, accredited to the West Indies, but rare north of Surinam.

*Silurus bagre* Linnæus, Syst. Nat., ed. XII, 505, 1766, South America; after Gronow.

162. *Felichthys pinnimaculatus* (Steindachner).

Mazatlan to Panama.

*Ailurichthys pinnimaculatus* Steindachner, Ichth. Beitr., IV, 15, 1875, Panama, Altata, Costa Rica.

163. *Felichthys eydouxi* (Cuvier & Valenciennes).

Guayaquil.

*Galeichthys eydouxi* Cuvier & Valenciennes, Hist. Nat. Poiss., XV, 43, 1840, Guayaquil.

164. *Felichthys filamentosus* Swainson.

Atlantic Coast of tropical America.

*Felichthys filamentosus* Swainson, Nat. Hist. Anim., II, 305, 1839; after Bloch, pl. 365.

165. *Felichthys marinus* (Mitchill). Sea Catfish; Gaff Topsail.

Cape Cod to Texas.

*Silurus marinus* Mitchill, Trans. Lit. and Phil. Soc. N. Y., I, 1815, 433, New York.

166. *Felichthys bahiensis* (Castelnau).

Mexico to Bahia.

*Galeichthys bahiensis* Castelnau, Anim. Amer. Sud, 37, 1855, Bahia.

## Genus 69. GALEICHTHYS Cuvier &amp; Valenciennes. Sea Catfishes.

*Galeichthys* Cuvier & Valenciennes, Hist. Nat. Poiss., XV, 28, 1840 (*feliceps*).

167. *Galeichthys lentiginosus* (Eigenmann & Eigenmann).

Panama.

*Tachisurus lentiginosus* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 139, Panama.

168. *Galeichthys peruvianus* Lütken.

Pacific Coast of Mexico to Peru.

*Galeichthys peruvianus* Lütken, Vidensk. Med. 1874, 204, Callao, Peru.

## Subgenus HEXANEMATICTHYS Bleeker.

*Hexanematichthys* Bleeker, Ichthyol. Archip. Indici Siluri, 61, 1858 (*sundaicus*).

169. *Galeichthys felis* (Linnæus). Sea Catfish.

Cape Cod to Texas.

*Silurus felis* Linnæus, Syst. Nat., ed. XII, 503, 1766, Charleston, South Carolina.

170. *Galeichthys seemani* (Günther).

Panama.

*Arius seemani* Günther, Cat., V, 147, 1861, "Central America."





**171. *Galeichthys gilberti* Jordan & Williams.**

Coast of Sinaloa, Mexico.

*Galeichthys gilberti* Jordan & Williams, Fishes of Sinaloa, in Proc. Cal. Ac. Sci. 1895, 395, pl. 26, Mazatlan, Sinaloa.**172. *Galeichthys jordani* (Eigenmann & Eigenmann).**

Panama.

*Tachisurus jordani* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 142, Panama.**173. *Galeichthys cærulescens* (Günther).**

West coast of Guatemala.

*Arius cærulescens* Günther, Cat., v, 149, 1864, Rio Huamuchal, Guatemala.**174. *Galeichthys guatemalensis* (Günther).**

Mazatlan to Central America.

*Arius guatemalensis* Günther, Cat., v, 145, 1864, Guatemala; Chiapas.**175. *Galeichthys assimilis* (Günther).**

Atlantic Coast of Central America.

*Arius assimilis* Günther, Cat., v, 146, 1864, Lake Yzabal, Guatemala.**176. *Galeichthys surinamensis* (Bleeker).**

Surinam.

*Hexanematichthys surinamensis* Bleeker, Versl. Med. Akad. Wet. Amsterd. 1862, 380, Surinam.**177. *Galeichthys azureus* Jordan & Williams. *Bagre Azul*.**

Coast of Sinaloa, Mexico.

*Galeichthys azureus* Jordan & Williams, Fishes of Sinaloa, in Proc. Cal. Ac. Sci. 1895, 398, pl. 27, Mazatlan, Mexico.**178. *Galeichthys dasycephalus* (Günther).**

Panama.

*Arius dasycephalus* Günther, Cat., v, 157, 1864, Oahu; apparently an error.**179. *Galeichthys longicephalus* (Eigenmann & Eigenmann).**

Panama.

*Tachisurus longicephalus* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 143, Panama.**180. *Galeichthys rugispinis* (Cuvier & Valenciennes).**

Surinam to Para.

*Arius rugispinis* Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 77, 1840, Cayenne.**181. *Galeichthys phrygiatus* (Cuvier & Valenciennes).**

Surinam to Maranhão.

*Arius phrygiatus* Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 79, 1810, Cayenne.**Genus 70. *SCIADÉICHTHYS* Bleeker.***Sciadeichthys* Bleeker, Ichthyol. Archip. Indici Siluri, 62, 1858 (*emphysetus*).**182. *Sciadeichthys troscheli* (Gill). *Bagre Colorado*.**

Mazatlan to Panama.

*Sciades troscheli* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 171, Panama.**183. *Sciadeichthys emphysetus* (Müller & Troschel).**

Surinam.

*Bagrus (Sciades) emphysetus* Müller & Troschel, Horæ Ichthyol., III, 8, 1849, Surinam.**184. *Sciadelichthys temminckianus* (Cuvier & Valenciennes).**

Cayenne, French Guiana.

*Bagrus temminckianus* Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 463, 1839, Cayenne, French Guiana.



**185. *Sciadeichthys flavescens* (Cuvier & Valenciennes).**

Cayenne, French Guiana.

*Bagrus flavescens* Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 462, 1839, Cayenne, French Guiana.**186. *Sciadeichthys mesops* (Cuvier & Valenciennes).**

French Guiana.

*Bagrus mesops* Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 456, 1839, French Guiana.**187. *Sciadeichthys proops* (Cuvier & Valenciennes).**

West Indies from Porto Rico to Surinam and south to Pernambuco.

*Bagrus proops* Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 457, 1839, Cayenne, French Guiana; Surinam; Porto Rico.**188. *Sciadeichthys passany* (Cuvier & Valenciennes).**

Cayenne, French Guiana.

*Bagrus passany* Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 458, 1839, Cayenne, French Guiana.**189. *Sciadeichthys albicans* (Cuvier & Valenciennes).**

Guiana to the Amazon.

*Bagrus albicans* Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 461, pl. 420, 1839, Cayenne, French Guiana.**Genus 71. *SELENASPIS* Bleeker.***Selenaspis* Bleeker, Ichthyol. Archip. Indici Siluri, 62, 1858 (*herzbergii*).**190. *Selenaspis herzbergii* (Bloch).**

Coasts of South America from Cayenne to Para; common.

*Silurus herzbergii* Bloch, Ichthyol., VIII, 33, pl. 367, 1801, Surinam.**191. *Selenaspis dowii* (Gill).**

Panama to Guayquil.

*Leptarius dowii* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 170, Panama.**192. *Selenaspis parkeri* (Traill). *Bresson*.**

Guiana to Para.

*Silurus parkeri* Traill, Mem. Werner. Soc., VI, 1832, 377, pl. 6, Guiana.**193. *Selenaspis luniscutis* (Cuvier & Valenciennes).**

Surinam to Rio Janeiro; common.

*Arius luniscutis* Cuvier & Valenciennes, Hist. Nat. Poiss., XV, 109, 1840, Brazil.**Genus 72. *NETUMA* Bleeker.***Netuma* Bleeker, Ichthyol. Archip. Indici Siluri, 62, 1858 (*nasuta*).**Subgenus *NOTARIUS* Gill.***Notarius* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 170 (*dowi*).**194. *Netuma grandicassis* (Cuvier & Valenciennes).**

Guiana to Bahia.

*Arius grandicassis* Cuvier & Valenciennes, Hist. Nat. Poiss., XV, 53, pl. 427, 1840, Guiana.**195. *Netuma stricticassis* (Cuvier & Valenciennes).**

Surinam to Bahia.

*Arius stricticassis* Cuvier & Valenciennes, Hist. Nat. Poiss., XV, 58, 1840, Cayenne, French Guiana.**196. *Netuma dubia* (Bleeker).**

Surinam.

*Netuma dubia* Bleeker, Versl. Med. Ac. Wet. Amsterd., XIV, 1862, 382, Surinam.



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197. **Netuma kessleri** (Steindachner).  
Altata to Panama.  
*Arius kessleri* Steindachner, Ichth. Beitr., iv, 24, 1876, Altata; Panama.
198. **Netuma insculpta** (Jordan & Gilbert).  
Panama.  
*Arius insculptus* Jordan & Gilbert, Bull. U. S. Fish Com. 1882 (1883), 41, Panama.
199. **Netuma planiceps** (Steindachner).  
Altata to Panama.  
*Arius planiceps* Steindachner, Ichth. Beitr., iv, 1876, 26, Altata; Panama.
200. **Netuma platypogon** (Günther).  
Gulf of California to Peru.  
*Arius platypogon* Günther, Cat., v, 147, 1864, San José de Guatemala.
201. **Netuma oscula** (Jordan & Gilbert).  
Panama.  
*Arius osculus* Jordan & Gilbert, Bull. U. S. Fish Com. 1882 (1883), 46, Panama.
202. **Netuma elattura** (Jordan & Gilbert).  
Panama.  
*Arius elatturus* Jordan & Gilbert, Bull. U. S. Fish Com. 1882 (1883), 45, Panama.
203. **Netuma insularum** Flora Hartley Greene.  
Galapagos Islands.  
*Netuma insularum* Flora Hartley Greene, in Jordan & Evermann, Fishes North and Middle America, 73, 1896, Galapagos Islands.
- Genus 73. **TACHYSURUS** Lacépède.  
*Tachysurus* Lacépède, Hist. Nat. Poiss., v, 151, 1803 (*chinensis*).
204. **Tachysurus nuchalis** (Günther).  
Guiana.  
*Arius nuchalis* Günther, Cat., v, 171, 1864, British Guiana.
205. **Tachysurus fissus** (Cuvier & Valenciennes).  
Surinam.  
*Arius fissus* Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 107, 1840, Cayenne.
206. **Tachysurus spixii** (Agassiz).  
Coast of Guiana and Brazil, south to Santos.  
*Pimelodus spixii* Agassiz, Gen. Spec. Pisc. Brasil., 19, 1829; after Spix.
207. **Tachysurus melanopus** (Günther).  
Both coasts of Central America; Rio Motagua; Panama.  
*Arius melanopus* Günther, Cat., v, 172, 1864, Rio Motagua.
208. **Tachysurus furthii** (Steindachner).  
Panama.  
*Arius furthii* Steindachner, Ich. Beitr., iv, 29, 1876, Panama.
209. **Tachysurus liropus** Bristol.  
San Juan Lagoon, Rio Ahome, Sonora.  
*Tachysurus liropus* Bristol MS., San Juan Lagoon, Rio Ahome, Sonora.
210. **Tachysurus variolosus** (Cuvier & Valenciennes).  
Cayenne, French Guiana.  
*Arius variolosus* Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 107, 1840, Cayenne, French Guiana.
211. **Tachysurus multiradiatus** (Günther).  
Rio Bayano, near Panama.  
*Arius multiradiatus* Günther, Cat., v, 173, 1864, Rio Bayano; after Kner.

**Genus 74. CATHOROPS** Jordan & Gilbert.*Cathorops* Jordan & Gilbert, Bull. U. S. Fish. Com. 1882, 54 (*hypophthalmus*).**212. Cathorops hypophthalmus** (Steindachner).

Panama.

*Arius hypophthalmus* Steindachner, Ichth. Beitr., iv, 31, pl. 10, 1875, Panama.**213. Cathorops gulosus** (Eigenmann & Eigenmann).

Panama.

*Tachisurus gulosus* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 14  
Panama.**Genus 75. ICTALURUS** Rafinesque. *Channel Cats*.*Ictalurus* Rafinesque, Ichth. Ohiensis, 61, 1820 (*maculatus* = *punctatus*).**214. Ictalurus furcatus** (LeSueur). *Chuckle-head Cat*.

Ohio to Iowa and Texas.

*Pimelodus furcatus* LeSueur, in Cuvier & Valenciennes, Hist. Nat. Poiss., 1  
136, 1840, New Orleans.**215. Ictalurus punctatus** (Rafinesque). *Channel Cat; White Cat; Blue Cat*.Rivers of Great Lakes region and Mississippi Valley and streams tributary  
the Gulf of Mexico.*Silurus punctatus* Rafinesque, Amer. Month. Mag. 1818, 359, Ohio River.**216. Ictalurus meridionalis** (Günther).

Rio Usamacinta, Guatemala.

*Amiurus meridionalis* Günther, Cat., v, 102, 1864, Rio Usamacinta.**Genus 76. VILLARIUS** Rutter.*Villarius* Rutter, Proc. Cal. Ac. Sci. 1896, 256 (*pricei*).**217. Villarius pricei** Rutter.

Northwestern Mexico.

*Villarius pricei* Rutter, Proc. Cal. Ac. Sci. 1896, 257, Rio Yaqui, Sonora.**218. Villarius dugesi** (Bean).

Rio Turbio, Guanajato, Mexico, west of the Sierra Madre.

*Amiurus dugesi* Bean, Proc. U. S. Nat. Mus. 1879, 304, Rio Turbio, Mexico.**Genus 77. AMEIURUS** Rafinesque.*Ameiurus* Rafinesque, Ichth. Ohiensis, 65, 1820 (*cupreus* = *natalis*).**Subgenus HAUSTOR** Jordan & Evermann.*Haustor* Jordan & Evermann, Fishes North and Middle America, 137, 11  
(*lacustris*).**219. Ameiurus lacustris** (Walbaum). *Catfish of the Lakes; Great Fork-tailed C*  
*Mississippi Cat; Florida Cat; Flannel-mouth Cat; Mathemeg, or U*  
*Fish*.

Saskatchewan River and Great Lakes to Florida and Texas.

*Gradus lacustris* Walbaum, Artedi Piscium, 144, 1792, Arctic America.**220. Ameiurus lupus** (Girard).

Rio Nueces and Rio Pecos, Texas.

*Pimelodus lupus* Girard, Pac. R. R. Surv., x, 211, 1858, Rio Pecos, Texas.**221. Ameiurus catus** (Linnaeus). *White Cat; Channel Cat of the Potomac*.Delaware River to Texas; introduced into Sacramento and San Joaqui  
rivers.*Silurus catus* Linnaeus, Syst. Nat., ed. x, 305, 1758, northern part of America.**22. Ameiurus okeechobeensis** (Heilprin). *Okeechobee Catfish*.

Florida.

*Ictalurus okeechobeensis* Heilprin, Trans. Wagner Inst. Sci. Phila., 1, 18  
129, pl. 18, Kissimee River, Florida.





## Subgenus AMEIURUS Rafinesque.

223. *Ameiurus erebennus* Jordan.

New Jersey to Florida.

*Amiurus erebennus* Jordan, Bull. U. S. Nat. Mus., x, 85, figs. 19 and 20, 1877, St. Johns River, Florida.224. *Ameiurus natalis* (LeSueur). *Yellow Cat*.

Great Lakes region to Virginia and Texas.

*Pimelodus natalis* LeSueur, Mém. Mus., v, 154, 1819, North America.225. *Ameiurus vulgaris* (Thompson).

Vermont to Minnesota and Illinois.

*Pimelodus vulgaris* Thompson, Hist. Vermont, 138, 1842, Lake Champlain.226. *Ameiurus nebulosus* (LeSueur). *Horned Pout*; *Common Bullhead*; *Schuykill Cat*; *Small Catfish*; *Sacramento Cat*.

Great Lakes, Ohio Valley, eastward to Maine, southwestward to Texas, and southeastward to Florida; introduced into the Sacramento, San Joaquin, Humboldt, and Gila rivers.

*Pimelodus nebulosus* LeSueur, Mém. Mus., v, 149, 1819, Lake Ontario.226a. *Ameiurus nebulosus catulus* (Girard).

Texas and northward into Arkansas.

*Pimelodus catulus* Girard, Pac. R. R. Surv., x, 208, 1858, Fort Smith, Arkansas.226b. *Ameiurus nebulosus marmoratus* (Holbrook).

Indiana to Florida.

*Pimelodus marmoratus* Holbrook, Jour. Ac. Nat. Sci. Phila. 1855, 54, South Carolina.227. *Ameiurus melas* (Rafinesque). *Black Bullhead*; *Small Catfish*.

Northern New York to Kansas and Texas.

*Silurus melas* Rafinesque, Quart. Jour. Sci. Lit. Arts Lond. 1820, 51, Ohio River.228. *Ameiurus platycephalus* (Girard). *Mud Cat*; *Brown Cat*.

Carolina and eastern Georgia, from Cape Fear River to the Chattahoochee.

*Pimelodus platycephalus* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 161, Anderson, South Carolina.

## Subgenus GRONIAS Cope.

*Gronias* Cope, Proc. Ac. Nat. Sci. Phila. 1864, 231 (*nigrilabris*).229. *Ameiurus nigrilabris* (Cope).

Cave streams tributary to Conestoga River in eastern Pennsylvania.

*Gronias nigrilabris* Cope, Proc. Ac. Nat. Sci. Phila. 1864, 231, Conestoga River, Pennsylvania.

## Genus 78. LEPTOPS Rafinesque.

*Leptops* Rafinesque, Ichth. Ohiensis, 64, 1820 (*viscosus* = *olivaris*).230. *Leptops olivaris* (Rafinesque). *Mud Cat*; *Yellow Cat*; *Bashaw*; *Russian Cat*.

Rivers of the Mississippi Valley and Southern States, southwest to Chihuahua, Mexico.

*Silurus olivaris* Rafinesque, Amer. Month. Mag. 1818, 355, Ohio River.Genus 79. NOTURUS Rafinesque. *Stone Cats*.*Noturus* Rafinesque, Amer. Month. Mag., November, 1818, 41 (*flavus*).231. *Noturus flavus* Rafinesque. *Stone Cat*.

Great Lakes region, westward and south to Montana, Wyoming, and Texas.

*Noturus flavus* Rafinesque, Amer. Month. Mag. 1818, 41, Falls of Ohio River.



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Genus 80. **SCHILBEODES** Bleeker. *Mad Toms.*

*Schilbeodes* Bleeker, Ichth. Archip. Indici. Prodr. Siluri., 258, 1858 (*gyrinus*).

Subgenus **SCHILBEODES** Bleeker.

232. **Schilbeodes gyrinus** (Mitchill).

Hudson River and westward through the Mississippi Valley, the upper lake region, and Rainy River.

*Silurus gyrinus* Mitchill, Amer. Month. Mag. 1818, 322, Walkill River, New York.

233. **Schilbeodes leptacanthus** (Jordan).

Gulf States.

*Noturus leptacanthus* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 352, Etowah River, Rome, Georgia.

*Gyrinus*  
Subgenus **RABIDA** Jordan & Evermann.

*Rabida* Jordan & Evermann, Fishes North and Middle America, 146, 1896 (*furiosus*).

234. **Schilbeodes nocturnus** (Jordan & Gilbert).

Lower Wabash River in Indiana, and the Poteau, Washita, and Saline rivers, Arkansas.

*Noturus nocturnus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 6, Saline River at Benton, Arkansas.

235. **Schilbeodes funebris** (Gilbert & Swain).

Tributary of Black Warrior River, Tuscaloosa, Alabama.

*Noturus funebris* Gilbert & Swain, Bull. U. S. Fish. Com. 1889, 153, North River, Tuscaloosa, Alabama.

236. **Schilbeodes exilis** (Nelson).

Wisconsin to Missouri and Kansas.

*Noturus exilis* Nelson, Bull. Ill. Lab. Nat. Hist., vol. 1, No. 1, 51, 1876, Illinois River.

237. **Schilbeodes insignis** (Richardson). *Mad Tom.*

Pennsylvania to South Carolina.

*Pimelodus insigne* Richardson, Fauna Bor.-Amer., III, 132, 1836; based on *Pimelode lirrée* LeSueur.

238. **Schilbeodes gilberti** (Jordan & Evermann).

Roanoke River in southwestern Virginia.

*Noturus gilberti* Jordan & Evermann, Proc. U. S. Nat. Mus. 1888, 352, Roanoke River, Roanoke, Virginia.

239. **Schilbeodes eleutherus** (Jordan).

Mississippi Valley.

*Noturus eleutherus* Jordan, Ann. Lyc. Nat. Hist. N. Y., XI, 1876 (1877), 371, Big Pigeon River, Newport, Tennessee.

240. **Schilbeodes miurus** (Jordan).

Mississippi Valley and tributaries of Lake Michigan, south to Louisiana.

*Noturus miurus* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1877, 371, White River, Indiana.

241. **Schilbeodes furiosus** (Jordan & Meek).

Eastern and central North Carolina.

*Noturus furiosus* Jordan & Meek, Proc. U. S. Nat. Mus. 1888, 351, Neuse River, Milburnie, North Carolina.

Genus 81. **RHAMDIA** Bleeker. *Bagres de Rio.*

*Rhamdia* Bleeker, Ichth. Arch. Ind. Siluri., 197, 1858 (*quelen*).

Subgenus **RHAMDIA** Bleeker.

242. **Rhamdia wagneri** (Günther). *Barbudo.*

Rivers of Central America.

*Pimelodus wagneri* Günther, Fishes Cent. Am., 474, 1869, Atlantic and Pacific rivers of Panama.

*Pimelodon insignarius* Le Sueur. Vaillant  
B.S. Philon 1896 .28. plate unpub.  
1819

mech 1907  
Cochlana mellea  
Rhombia argentea  
Pentapocis trochilus  
Pocilia tenuis  
Gualmal

Subgenus RHAMDELLA Eigenmann & Eigenmann.

*Rhamdella* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., 2d series, I, 1888, 129 (*eriarcha*).

**243. *Rhamdia baronis-mulleri* (Troschel).**

"Pacific Ocean" in Mexico.

*Pimelodus baronis-mülleri* Troschel, in Müller's Beiträge zur Geschichte, Statistik und Zoologie von Mexico, III, 636, 1865, no definite locality.

**244. *Rhamdia motaguensis* (Günther).**

Rio Motagua, Guatemala.

*Pimelodus motaguensis* Günther, Cat., v, 127, 1864, Rio Motagua, Guatemala.

**245. *Rhamdia brachyptera* (Cope).**

Orizaba, Mexico.

*Pimelodus brachypterus* Cope, Trans. Am. Phil. Soc. 1866, 404, Orizaba, Mexico.

**246. *Rhamdia salvini* (Günther).**

Rio San Geronimo, Guatemala.

*Pimelodus salvini* Günther, Cat., v, 130, 1864, Rio San Geronimo, Guatemala.

**247. *Rhamdia hypselura* (Günther).**

Mexico.

*Pimelodus hypselurus* Günther, Cat., v, 126, 1864, Mexico.

**248. *Rhamdia laticauda* (Heckel).**

Mexico.

*Pimelodus laticaudus* Heckel, in Kner, Sitz. Wien. Ac., XXVI, 420, 1864, Mexico.

**249. *Rhamdia godmani* (Günther).**

Valley of Rio Usumacinta, Guatemala.

*Pimelodus godmani* Günther, Cat., v, 124, 1864, Rio Usumacinta, Guatemala.

**250. *Rhamdia guatemalensis* (Günther).**

Rio Huamuchal, Guatemala.

*Pimelodus guatemalensis* Günther, Cat., v, 122, 1864, Rio Huamuchal, Guatemala.

**251. *Rhamdia nicaraguensis* (Günther).**

Lake Nicaragua, Nicaragua.

*Pimelodus nicaraguensis* Günther, Cat., v, 125, 1864, Lake Nicaragua, Nicaragua.

**252. *Rhamdia microptera* (Günther).**

Rio San Geronimo, Guatemala.

*Pimelodus micropterus* Günther, Cat., v, 124, 1864, Rio San Geronimo, Guatemala.

**253. *Rhamdia managuensis* (Günther).**

Lake Managua, Nicaragua.

*Pimelodus managuensis* Günther, Fishes Cent. Am., 474, 1869, Lake Managua, Nicaragua.

**254. *Rhamdia polycaula* (Günther).**

Rio San Geronimo, Guatemala.

*Pimelodus polycaulus* Günther, Cat., v, 131, 1864, Rio San Geronimo, Guatemala.

**255. *Rhamdia petenensis* (Günther).**

Lake Peten, Yucatan.

*Pimelodus petenensis* Günther, Cat., v, 126, 1864, Lake Peten, Yucatan.

**256. *Rhamdia parryi* (Eigenmann).**

Rio Zanalenco, Chiapas.

*Rhamdella parryi* Eigenmann, Proc. Cal. Ac. Sci. 1888, 130, Rio Zanalenco, Chiapas.

**Genus 82. PIMELODELLA Eigenmann & Eigenmann.**

*Pimelodella* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 131 (*cristatus*).

**257. *Pimelodella chagresi* (Steindachner).**

Rio Chagres, Panama.

*Pimelodus chagresi* Steindachner, Ichth. Beitr., iv, 34, 1876, Rio Chagres, at Obispo.

**258. *Pimelodella modesta* (Günther).**

Esmeraldas, Ecuador; also recorded, perhaps doubtfully, from Rio Chagres. *Pimelodus modestus* Günther, Proc. Zool. Soc. Lond. 1860, 239, Esmeraldas, Ecuador.

**Genus 83. PIMELODUS Lacépède. *Congros Barbosus*.**

*Pimelodus* Lacépède, Hist. Nat. Poiss., v, 94, 1803 (*quadrimaculatus*, etc.; includes various genera).

**259. *Pimelodus maculatus* Lacépède. *Congro Barbosa*.**

Rio Mamoni (Panama) and southeastward to Rio de la Plata.

*Pimelodus maculatus* Lacépède, Hist. Nat. Poiss., v, 94, 107, 1803, Rio de la Plata.

**Family XXXV. LORICARIIDÆ.**

**Genus 84. LORICARIA Linnæus.**

*Loricaria* Linnæus, Syst. Nat., ed. x, 307, 1758 (*cataphracta*).

**Subgenus HEMIODON Kner.**

*Hemiodon* Kner, Panzerwelse, 89, 1853 (*depressus*).

**260. *Loricaria panamensis* Eigenmann & Eigenmann.**

Panama.

*Loricaria panamensis* Eigenmann & Eigenmann, S. A. Nematognathi, 365, 1890, Panama.

**Subgenus STURISOMA Swainson.**

*Sturisoma* Swainson, Nat. Hist. Fishes, ii, 304, 1839 (*rostrata*).

**261. *Loricaria rostrata* Spix.**

Rivers of eastern South America from Panama to Paraguay River.

*Loricaria rostrata* Spix, Pisc. Brasil., 5, 1829, Rio Blanco.

**Subgenus RINELORICARIA Bleeker.**

*Rineloricaria* Bleeker, Nederl. Tijdschr. Dierk., 80, 1863 (*lima*).

**262. *Loricaria lima* Kner.**

Brazil, from Parahyba River northward to Panama.

*Loricaria lima* Kner, Panzerwelse, 89, 1853, Brazil.

**263. *Loricaria bransfordi* Gill.**

Isthmus of Panama.

*Loricaria bransfordi* Gill, Proc. Ac. Nat. Sci. Phila. 1876, 338, Empire Station, Isthmus Railway, Panama.

**Subgenus PARAHEMIODON Bleeker.**

*Parahemiodon* Bleeker, Nederl. Tijdschr. Dierk., 80, 1863 (*typus*).

**264. *Loricaria uracantha* Kner & Steindachner.**

Rio Chagres, Panama.

*Loricaria uracantha* Kner & Steindachner, Abh. Bayer. Ac. Wiss., 56, 1865, Rio Chagres, Panama.





## Subgenus LORICARIA Linnæus.

265. *Loricaria variegata* Steindachner.

Rio Mamoni, Panama.

*Loricaria variegata* Steindachner, Flussfische Südamer., i, 15, 1879, Rio Mamoni, Panama.

## Genus 85. HEMIANCISTRUS Bleeker.

*Hemiancistrus* Bleeker, Tijdschr. Dierk., i, 78, 1863 (*medians*).266. *Hemiancistrus guacharote* (Cuvier & Valenciennes).

Porto Rico.

*Hypostomus guacharote* Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 508, 1840, Porto Rico.267. *Hemiancistrus aspidolepis* (Günther).

Veragua.

*Chatostomus aspidolepis* Günther, Fishes Central Amer., 478, 1869, Veragua.

## Genus 86. CHÆTOSTOMUS Kner.

*Chatostomus* Kner, Hypostomiden, 272, 1853 (*loborhynchus*).268. *Chætostomus fischeri* Steindachner. Couchu.

Rio Mamoni, near Panama.

*Chætostomus fischeri* Steindachner, Flussfische Südamer., i, 14, 1879, Rio Mamoni, Panama.

## Genus 87. ANCISTRUS Kner.

*Ancistrus* Kner, Hypostomiden, 272, 1853 (*cirrhusus*).269. *Ancistrus chagresi* Eigenmann & Eigenmann.

Rio Chagres, Panama.

*Ancistrus chagresi* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1889, 47, Rio Chagres, Panama.

## Order N. PLECTOSPONDYLI. The Carp-like Fishes.

## Suborder EVENTOGNATHI. The Carps.

## Family XXXVI. CATOSTOMIDÆ. The Suckers.

Genus 88. ~~ICTIOBUS~~ <sup>ICTIOBUS</sup> Rafinesque. Buffalo-fishes.*Ictiobus* Rafinesque, Ichth. Ohiensis, 55, 1820 (*bubalus*).Subgenus ~~SELEROGNATHUS~~ <sup>SELEROGNATHUS</sup> Cuvier & Valenciennes.*Sclerognathus* Cuvier & Valenciennes, Hist. Nat. Poiss., xvii, 477, 1844 (*cyprinella*).270. *Ictiobus cyprinella* (Cuvier & Valenciennes). Red-mouth Buffalo-fish; Common Buffalo-fish.

Mississippi Valley.

*Sclerognathus cyprinella* Cuvier & Valenciennes, Hist. Nat. Poiss., xvii, 477, 1844, Lake Pontchartrain, Louisiana.Subgenus ~~ICTIOBUS~~ <sup>ICTIOBUS</sup> Rafinesque.271. *Ictiobus urus* (Agassiz). Mongrel Buffalo.

Mississippi Valley.

*Carpiodes urus* Agassiz, Amer. Jour. Sci. Arts 1854, 355, Tennessee River, Huntsville, Alabama.272. *Ictiobus meridionalis* (Günther).

Rio Usumacinta, Guatemala.

*Sclerognathus meridionalis* Günther, Cat., vii, 23, 1868, Rio Usumacinta, Guatemala.



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273. *Ictiobus bubalus* (Rafinesque). *Small-mouthed Buffalo; Razor-backed Buffalo; Sucker-mouthed Buffalo.*

Mississippi Valley and southward.

*Amblodon bubalus* Rafinesque, Jour. Phys. 1818, 421, Ohio River.

Genus 89. *CARPIODES* Rafinesque.

*Carpiodes* Rafinesque, Ichth. Ohiensis, 56, 1820 (*cyprinus*).

274. *Carpiodes carpio* (Rafinesque). *Carp Sucker.*

Ohio Valley, southwest to central Texas.

*Catostomus carpio* Rafinesque, Ichth. Ohiensis, 56, 1820, Falls of Ohio River.

275. *Carpiodes difformis* Cope.

Ohio Valley and westward.

*Carpiodes difformis* Cope, Proc. Am. Phil. Soc. Phila. 1870, 480, Wabash River.

276. *Carpiodes thompsoni* Agassiz. *Lake Carp; "Drum."*

Lake Champlain and Great Lakes region.

*Carpiodes thompsoni* Agassiz, Am. Jour. Sci. Arts 1855, 191, Lake Champlain.

277. *Carpiodes velifer* (Rafinesque). *Quillback; Spearfish; Sailfish; Skimback.*

Mississippi Valley and southwestward to Rio Grande and upper Missouri.

*Catostomus velifer* Rafinesque, Ichth. Ohiensis, 56, 1820, Ohio River.

278. *Carpiodes cyprinus* (LeSueur). *Eastern Carp Sucker.*

Streams about Chesapeake Bay.

*Catostomus cyprinus* LeSueur, Jour. Ac. Nat. Sci. Phila., i, 1817, 91, Elk River and other tributaries of Chesapeake Bay.

Genus 90. *CYCLEPTUS* Rafinesque. *Blackhorse.*

*Cycleptus* Rafinesque, Jour. Phys. 1819, 421 (*nigrescens*).

279. *Cycleptus elongatus* (LeSueur). *Blackhorse; Gourd-seed Sucker; Missouri Sucker; Suckerel.*

Upper Mississippi Valley.

*Catostomus elongatus* LeSueur, Jour. Ac. Nat. Sci. Phila., i, 1817, 103, Ohio River.

Genus 91. *PANTOSTEUS* Cope. *Mountain Suckers.*

*Pantosteus* Cope, Lieut. Wheeler's Expl. W. 100th Mer., v, 673, 1876 (*platyrhynchus* = *generosus*).

280. *Pantosteus arizonæ* Gilbert. *Clarki*

Gila Basin, Arizona.

*Pantosteus arizonæ* Gilbert, in Jordan & Evermann, Fish. N. and M. Amer., 170, 1896, Salt River, Tempe, Arizona.

281. *Pantosteus generosus* (Girard). *Mountain Sucker.*

Great Basin of Utah. *Colorado Basin*

*Catostomus generosus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 174, Cottonwood Creek, Utah. *not again - Cope's Lake*

282. *Pantosteus plebeius* (Baird & Girard).

Basin of the Rio Grande.

*Catostomus plebeius* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 28, Rio Mimbres, a tributary of Lake Guzman, Chihuahua.

283. *Pantosteus delphinus* (Cope). *Blue-headed Sucker.*

Mountain streams tributary to the Colorado River in western Colorado and Wyoming.

*Minomus delphinus* Cope, Hayden's Geol. Surv. Wyoming for 1870 (1872), 435, probably Henry Fork of Green River, Wyoming.

284. *Pantosteus guzmaniensis* (Girard).

Streams of Coahuila and Chihuahua tributary to the Rio Grande.

*Catostomus guzmaniensis* Girard, Proc. Ac. Nat. Sci. Phila. 1858, 173, Rio Janos, a tributary of Lake Guzman, Chihuahua.

be *Relene* = *dyffomis*. yda Hubbs.

*Notolepidomys* Fowler. Lybe Arizona

(need revision) see Snyder

*Pantosteus* *santaeranae* Snyder. Proc. 1908  
Riverside = *Notolepidomys*

*Pantosteus* *viridescens* Cope.

Heber and Bear R. Utah

*Pant.* *platygnathus* (Cope) (Porro) = *Pant*

Porro-Heber-Series

*Pant.* *jarrowii* Cope! no lat.

*P.* *lahontan*

*P. lahontan* = *Pant.*

Notipogon. thick cranium with strong sulci  
*Pontostes*, thin cranium with very narrow sulci  
near articulation

*Minomus insignis* - type of *Minomus*.

*columbianus*

*C. lineatus* = *C. occidentalis*

285. *Pantosteus jordani* Evermann.

Upper Missouri and Columbia River basins.

*Pantosteus jordani* Evermann, Bull. U. S. Fish Com. 1892 (January 27, 1893), 51, Whitewood Creek and other streams of the Black Hills, South Dakota.

286. *Pantosteus aræopus* (Jordan).

Kern River, California; Carson River and Reese River, Nevada.

*Catostomus aræopus* Jordan, Bull. U. S. Nat. Mus., xii, 173, 1878, Kern River, California.

*NOTOLEPI DOMYZON*

287. *Pantosteus clarki* (Baird & Girard).

Rio Gila and tributaries in Arizona.

*Catostomus clarki* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 27, Rio Santa Cruz, Gila Basin, Arizona.

Genus 92. CATOSTOMUS LeSueur. *Fine-scaled Suckers.*

*Catostomus* LeSueur, Jour. Ac. Nat. Sci. Phila., i, 1817, 89 (*catostomus*).

Subgenus CATOSTOMUS LeSueur.

288. *Catostomus latipinnis* Baird & Girard. *Flannel-mouthed Sucker.*

Rio Colorado and Rio Gila and their tributaries.

*Catostomus latipinnis* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 388, Rio San Pedro, Gila Basin.

289. *Catostomus discobolus* Cope.

Upper Colorado Basin.

*Catostomus discobolus* Cope, Hayden's Geol. Surv. Wyo., 435, 1870 (1872), Green River, Wyoming.

290. *Catostomus griseus* (Girard).

Platte River and upper Missouri region.

*Acomus griseus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 174, Sweetwater Fork of Platte River, Wyoming.

291. *Catostomus retropinnis* Jordan.

Northern Montana.

*Catostomus retropinnis* Jordan, Bull. U. S. Nat. Mus., xii, 178, 1878, Milk River, Montana.

292. *Catostomus pocatello* Gilbert & Evermann. *Moogadee.*

Upper Snake River basin; the type from near Pocatello, Idaho.

*Catostomus pocatello* Gilbert & Evermann, Bull. U. S. Fish Com. 1894, 189, pl. 21, fig. 1, Ross Fork of Snake River, near Pocatello, Idaho.

293. *Catostomus catostomus* (Forster). *Long-nosed Sucker; Northern Sucker; Red Sucker.*

Great Lakes, upper Missouri River, upper Columbia, and northwestward to Alaska; very abundant northward, but not coming south of latitude 40°.

*Cyprinus catostomus* Forster, Phil. Trans. 1773, 155, streams about Hudson Bay.

294. *Catostomus tahoensis* Gill & Jordan. *Tahoe Sucker.*

Lake Tahoe and Humboldt River at Winnemucca, Nevada.

*Catostomus tahoensis* Gill & Jordan, in Jordan, Bull. U. S. Nat. Mus., xii, 173, 1878, Lake Tahoe, California.

295. *Catostomus rex* R. S. Eigenmann.

Lost River, Tule Lake, Oregon.

*Catostomus rex* Rosa Smith Eigenmann, Am. Nat., July, 1891, 667, Lost River, Oregon.

Subgenus DECACTYLUS Rafinesque.

*Decactylus* Rafinesque, Ichth. Ohiensis, 60, 1820 (*bostoniensis* = *commersonii*)

296. *Catostomus labiatus* Ayres.

~~Klamath Lake, Oregon.~~

*Catostomus labiatus* Ayres, Proc. Cal. Ac. Sci. 1855, 32, ~~Klamath Lake, Oregon.~~

*Stockton Cal*

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297. *Catostomus occidentalis* Ayres. *Sacramento Sucker*.

Streams of California; Sacramento and San Joaquin rivers.

*Catostomus occidentalis* Ayres, Proc. Cal. Ac. Sci. 1854, 18, San Francisco.

298. *Catostomus bernardini* Girard.

San Bernardino Creek, a tributary of Rio Yaqui, on the boundary of Arizona and Sonora.

*Catostomus bernardini* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 175, San Bernardino Creek, Arizona.

299. *Catostomus macrocheilus* Girard. *Columbia River Sucker*.

Columbia River basin as far up as Flathead Lake, Montana, Upper Salmon Falls, and the headwaters of Salmon River.

*Catostomus macrocheilus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 175, Astoria, Oregon.

300. *Catostomus commersoni* (Lacépède). *Common Sucker; White Sucker; Brook Sucker; Fine-scaled Sucker*.

Quebec and the Great Lakes to Montana, Colorado, and southward to Missouri and Georgia.

*Cyprinus commersoni* Lacépède, Hist. Nat. Poiss., v, 502, 1803, locality unknown.

301. *Catostomus ardens* Jordan & Gilbert. *Mullet of Utah Lake*.

Great Basin of Utah and upper Snake River, Idaho.

*Catostomus ardens* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 464, Utah Lake, Provo, Utah.

302. *Catostomus gila* Kirsch.

Rio Gila, Arizona.

*Catostomus gila* Kirsch, Proc. U. S. Nat. Mus. 1888, 555, Rio Gila, Fort Thomas, Arizona.

303. *Catostomus insignis* Baird & Girard.

Gila Basin, Arizona.

*Catostomus insignis* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 28, Rio San Pedro, Arizona.

*Genus* ~~Subgenus~~ **HYPENTELIUM** Rafinesque.

*Hypentelium* Rafinesque, Jour. Ac. Nat. Sci. Phila. 1818, 421 (*macropteron* = *nigricans*).

304. *Catostomus nigricans* LeSueur. *Hog Sucker; Stone-roller; Toter; Crawl-a-bottom; Hammer Head; Stone-lugger; Hog Molly*.

New York to Minnesota, Kansas, Arkansas, and the Carolinas.

*Catostomus nigricans* LeSueur, Jour. Ac. Nat. Sci. Phila. 1817, 102, Lake Erie.

305. *Catostomus rhotæcus* Thoburn.

Eastern Tennessee or southwestern Virginia.

*Catostomus rhotæcus* Thoburn, in Jordan & Evermann, Fishes North and Middle America, 181, 1896, supposed to be from French Broad River, Tennessee.

**Genus 93. CHASMISTES** Jordan.

*Chasmistes* Jordan, Bull. Hayden's Geol. Surv. Terr., iv, No. 2, 417, 1878 (*liorus*).

306. *Chasmistes fecundus* Cope & Yarrow. *Webbug Sucker*.

Utah Lake.

*Catostomus fecundus* Cope & Yarrow, Zool. Wheeler Surv., v, 678, 1876, Utah Lake.

307. *Chasmistes brevirostris* Cope.

Klamath Lake, Oregon.

*Chasmistes brevirostris* Cope, Am. Nat. 1879, 785, Klamath Lake, Oregon.

308. *Chasmistes liorus* (Jordan). *June Sucker of Utah Lake*.

Utah Lake.

*Chasmistes liorus* Jordan, Bull. U. S. Nat. Mus., xii, 219, 1878, Utah Lake at Provo, Utah.

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**309. Chasmistes cujus Cope. Coula.**

Pyramid Lake, Nevada.

*Chasmistes cujus* Cope, Proc. Ac. Nat. Sci. Phila. 1883, 149, Pyramid Lake.**Genus 94. DELTISTES Seale.***Deltistes* Seale, Proc. Cal. Ac. Sci. 1896 (*luxatus*).**310. Deltistes luxatus (Cope).**

Klamath Lake and Klamath River, Oregon.

*Chasmistes luxatus* Cope, Am. Nat. 1879, 784, Klamath Lake.**Genus 95. XYRAUCHEN Eigenmann & Kirsch. Razor-back Suckers.***Xyrauchen* Eigenmann & Kirsch, Proc. U. S. Nat. Mus. 1888, 556 (*cypho*).**311. ~~Xyrauchen cypho~~ (Lockington). *Xyrauchen Abbott* Razor-back Sucker; Hump-backed Sucker.**

Basin of the Colorado and Gila rivers.

*Catostomus cypho* Lockington, Proc. Ac. Nat. Sci. Phila. 1880, 237, Colorado River at mouth of the Gila, Arizona.**312. ~~Xyrauchen uncomphgre~~ Jordan & Evermann.**~~Uncomphgre River in the Colorado basin.~~~~*Xyrauchen uncomphgre* Jordan & Evermann, Bull. U. S. Fish Com. 1889 (1891), 26, Uncomphgre River, Delta, Colorado.~~**Genus 96. ERIMYZON Jordan. Chub Suckers.***Erimyzon* Jordan, Bull. Buffalo Soc. Nat. Hist., 95, 1876 (*oblongus*).**313. Erimyzon sucetta (Lacépède). Creek-fish; Chub Sucker.**

Great Lakes, Mississippi Valley, and eastward in lakes and lowland streams.

*Cyprinus sucetta* Lacépède, Hist. Nat. Poiss., v, 606, 1803, South Carolina.**313a. Erimyzon sucetta oblongus (Mitchill).**

Great Lakes region to Maine and Dakota, south to Virginia and Indian Territory.

*Cyprinus oblongus* Mitchill, Trans. Lit. Phil. Soc. N. Y., 1, 1815, 459, New York.**Genus 97. MINYTREMA Jordan. Spotted Suckers.***Minytrema* Jordan, Man. Vert. E. U. S., ed. 2, 318, 1878 (*melanops*).**314. Minytrema melanops (Rafinesque). Winter Sucker; Spotted Sucker.**

Great Lakes region to North Carolina, west to Texas.

*Catostomus melanops* Rafinesque, Ichth. Ohiensis, 57, 1820, Ohio River.**Genus 98. MOXOSTOMA Rafinesque. Redhorse.***Moxostoma* Rafinesque, Ichth. Ohiensis, 54, 1820 (*anisurum*).**315. Moxostoma papillosum (Cope). White Mullet.**

Dismal Swamp in Virginia to the Ocmulgee River, Georgia.

*Ptychostomus papillosus* Cope, Proc. Am. Phil. Soc. Phila. 1870, 470, Catawba and Yadkin rivers, North Carolina.**316. Moxostoma anisurum (Rafinesque). White-nosed Sucker.**

Ohio River and Great Lakes region.

*Catostomus anisurus* Rafinesque, Ichth. Ohiensis, 54, 1820, Ohio River.**317. Moxostoma collapsum (Cope).**

Lowland streams of North Carolina.

*Ptychostomus collapsus* Cope, Proc. Am. Phil. Soc. 1870, 471, Neuse, Yadkin, and Catawba rivers, North Carolina.**318. Moxostoma bucco (Cope).**

Missouri River at St. Joseph.

*Ptychostomus bucco* Cope, Hayden's Geol. Surv. Wyo., 437, 1872, St. Joseph, Mo.



**319. *Moxostoma pidiense* (Cope).**

Great Pedee Basin.

*Ptychostomus pidiensis* Cope, Proc. Am. Phil. Soc. Phila. 1870, 471, Yadkin River, North Carolina.**320. *Moxostoma coregonus* (Cope). *Blue Mullet*.**

Catawba and Yadkin rivers, North Carolina.

*Ptychostomus coregonus* Cope, Proc. Am. Phil. Soc. Phila. 1870, 472, Catawba and Yadkin rivers.**321. *Moxostoma album* (Cope).**

Rivers of North Carolina.

*Ptychostomus albus* Cope, Proc. Am. Phil. Soc. Phila. 1870, 472, Catawba River.**322. *Moxostoma thalassinum* (Cope).**

Yadkin River, North Carolina.

*Ptychostomus thalassinus* Cope, Proc. Am. Phil. Soc. Phila. 1870, 472, Yadkin River, North Carolina.**323. *Moxostoma congestum* (Baird & Girard). *Texas Redhorse*.**

Streams of Texas.

*Catostomus congestus* Baird & Girard, Proc. Ab. Nat. Sci. Phila. 1854, 27, Rio Salado, Texas.**324. *Moxostoma austrinum* Bean.**

Rio de Santiago, Mexico, known from Michoacan, Mexico (west of Sierra Madre); Rio Lerma, at Salamanca.

*Myxostoma austrinum* Bean, Proc. U. S. Nat. Mus. 1879, 302, Piedad in Morelia, Michoacan, Mexico.**325. *Moxostoma aureolum* (LeSueur). *Common Redhorse; Mullet; White Sucker; Large-scaled Sucker*.**

Great Lakes, Mississippi Valley, and other streams west of the Allegheny Mountains, and west to the Dakotas and Manitoba.

*Catostomus aureolus* LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1817, 95, Lake Erie, near Buffalo, New York.**326. *Moxostoma robustum* (Cope).**

Yadkin River, North Carolina.

*Ptychostomus robustus* Cope, Proc. Am. Phil. Soc. Phila. 1870, 473, Yadkin River.**327. *Moxostoma macrolepidotum* (LeSueur).**

Streams about Chesapeake and Delaware bays, and southward to North Carolina, east of the Alleghanies.

*Catostomus macrolepidotus* LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1817, 94, Delaware River.**328. *Moxostoma crassilabre* (Cope).**

Streams of eastern North Carolina.

*Ptychostomus crassilabris* Cope, Proc. Am. Phil. Soc. Phila. 1879, 477, Neuse River, Raleigh, North Carolina.**329. *Moxostoma lesueurii* (Richardson). *Picconou*.**

Pine Island Lake and Albany River, British America.

*Catostomus lesueurii* Richardson, Franklin's Journal, 1823, 772, Pine Island Lake, British America.**330. *Moxostoma breviceps* (Cope).**

Ohio Valley and Great Lakes region.

*Ptychostomus breviceps* Cope, Proc. Am. Phil. Soc. Phila. 1870, 478, Youghiogheny River, Pennsylvania.**331. *Moxostoma conus* (Cope).**

Neuse and Yadkin rivers, North Carolina.

*Ptychostomus conus* Cope, Proc. Am. Phil. Soc. Phila. 1870, 478, Yadkin River.



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**332. *Moxostoma poecilurum* Jordan.**

Southern Mississippi to eastern Texas; Pearl, Tangipahoa, and Sabine rivers.

*Myxostoma poecilura* Jordan, Bull. U. S. Nat. Mus., x, 66, 1877, Tangipahoa River, Louisiana.

**333. *Moxostoma rupiscartes* Jordan & Jenkins. *Jump-rocks*.**

Rivers of the Carolinas and Georgia from the Catawba to the Chattahoochee River.

*Moxostoma rupiscartes* Jordan & Jenkins, Proc. U. S. Nat. Mus. 1888, 353, Catawba River, at Marion, N. C., and other streams in North and South Carolina.

**334. *Moxostoma cervinum* (Cope). *Jumping Mullet*.**

Rivers of the South Atlantic States from the James to the Neuse.

*Teretulus cervinus* Cope, Jour. Ac. Nat. Sci. Phila. 1868, 236, headwaters of Roanoke and James rivers, Virginia.

**Genus 99. PLACOPHARYNX Cope.**

*Placopharynx* Cope, Proc. Am. Phil. Soc. Phila. 1870, 467 (*carinatus* = *duquesnii*).

**335. *Placopharynx duquesnii* (LeSueur).**

*carinatus* Cope

Michigan (Detroit) to Tennessee, Georgia, and Arkansas.

*Catostomus duquesnii* LeSueur, Jour. Ac. Nat. Sci. Phila., i, 1817, 106, Ohio River at Pittsburg.

**Genus 100. LAGOCHILA Jordan & Brayton. *Rabbit-mouth Suckers*.**

*Lagochila* Jordan & Brayton, Proc. Ac. Nat. Sci. Phila. 1877, 280 (*lacera*).

**336. *Lagochila lacera* Jordan & Brayton. *Hare-lip Sucker*; *Cut-lips*; *Split-mouth Sucker*; *May Sucker*; *Rabbit-mouth Sucker*; *Pea-lip Sucker*.**

Mississippi Valley, Ozark Mountains, Scioto, Tippecanoe, Clinch, Cumberland and Chickamauga rivers, and the White River of Arkansas.

*Lagochila lacera* Jordan & Brayton, Proc. Ac. Nat. Sci. Phila. 1877, 280, Chickamauga River, Ringgold, Georgia.

**Family XXXVII. CYPRINIDÆ. The Carpa.****Genus 101. CAMPOSTOMA Agassiz. *Stone-rollers*.**

*Campostoma* Agassiz, Am. Jour. Sci. Arts 1855, 218 (*anomalum*).

**337. *Campostoma ornatum* Girard.**

Chihuahua River, Mexico.

*Campostoma ornatum* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 176, Chihuahua River, Mexico.

**338. *Campostoma pricei* Jordan & Thoburn.**

Springs in the Chiricahua Mountains in southern Arizona, tributary to the Rio Yaqui.

*Campostoma pricei* Jordan & Thoburn, in Jordan & Evermann, Fishes North and Middle America, 205, 1896, Rucker Canyon, Chiricahua Mountains, Arizona.

**339. *Campostoma anomalum* (Rafinesque). *Stone-roller*; *Stone-lugger*; *Steel-backed Chub*; *Mammy*; *Dough-belly*.**

Central New York to Tennessee, Wyoming, and Texas.

*Rutilus anomalus* Rafinesque, Ichth. Ohiensis, 52, 1820, Licking River, Kentucky.

**340. *Campostoma formosulum* Girard.**

San Antonio River to the Rio Grande.

*Campostoma formosulum* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 176, Rio Sabinal, near San Antonio, Texas.

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### Genus 102. ORTHODON Girard.

*Orthodon* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 182 (*microlepidota*).

#### 341. *Orthodon microlepidotus* (Ayres). *Blackfish*.

Lower Sacramento and San Joaquin rivers.

*Gila microlepidota* Ayres, Proc. Cal. Ac. Sci., I, 1855, 21, Sacramento and San Joaquin rivers, California.

### Genus 103. OXYGENEUM Forbes.

*Oxygeneum* Forbes, Bull. Ill. Lab. Nat. Hist., II, 136, 1885 (*pulverulentum*).

#### 342. *Oxygeneum pulverulentum* Forbes.

Illinois River.

*Oxygeneum pulverulentum* Forbes, Bull. Ill. Lab., II, 136, 1885, Illinois River.

### Genus 104. ACROCHEILUS Agassiz. *Chisel-mouths*.

*Acrocheilus* Agassiz, Am. Jour. Sci. Arts 1855, 211 (*alutaceus*).

#### 343. *Acrocheilus alutaceus* Agassiz & Pickering. *Chisel-mouth*; *Square-mouth*; *Hard-mouth*.

Lower Columbia River, as far up as Spokane and Shoshone Falls.

*Acrocheilus alutaceus* Agassiz & Pickering, Am. Jour. Sci. Arts, XIX, 1861, 214, Willamette Falls and Walla Walla River, Oregon.

### Genus 105. LAVINIA Girard.

*Lavinia* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 137 (*exilicauda*).

#### 344. *Lavinia exilicauda* Baird & Girard. *Hitch*; *Chi*.

Streams of the Coast Range about San Francisco and Monterey; locally common as far north as Clear Lake, California.

*Lavinia exilicauda* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 137, Sacramento River, California.

### Genus 106. CHROSOMUS Rafinesque.

*Chrosomus* Rafinesque, Ichth. Ohiensis, 47, 1820 (*erythrogaster*).

#### 345. *Chrosomus erythrogaster* Rafinesque. *Red-bellied Dace*.

New Brunswick to Ohio, Michigan, Iowa, and northern Alabama.

*Chrosomus erythrogaster* Rafinesque, Ichth. Ohiensis, 47, 1820, Ohio River.

#### 345a. *Chrosomus erythrogaster eos* Cope.

Susquehanna River.

*Chrosomus eos* Cope, Proc. Ac. Nat. Sci. Phila. 1861, 523, Meshoppen Creek, Susquehanna County, Pennsylvania.

#### 346. *Chrosomus dakotensis* Evermann & Cox.

Missouri River basin in Nebraska and South Dakota.

*Chrosomus dakotensis* Evermann & Cox, Report U. S. Fish Com. 1894 (1896), 395, Crow Creek, Chamberlain, South Dakota.

#### 347. *Chrosomus oreas* Cope.

Headwaters of Roanoke River, and clear tributaries of the Tennessee River.

*Chrosomus oreas* Cope, Jour. Ac. Nat. Sci. Phila. 1868, 233, head of Roanoke River, Montgomery County, Virginia.

### Genus 107. ALGANSEA Girard.

*Algansea* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 184 (*tincella*).

#### 348. *Algansea tincella* (Cuvier & Valenciennes).

Lakes about the City of Mexico.

*Leuciscus tincella* Cuvier & Valenciennes, Hist. Nat. Poiss., XVII, 323, 1844, City of Mexico.

#### 349. *Algansea lacustris* Steindachner.

Lake Pátzcuaro, Mexico.

*Algansea lacustris* Steindachner, Einige Fischarten Mexico's, 10, pl. 3, figs 1-1b, 1895, Lake Pátzcuaro, near City of Mexico.

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**350. *Algansea tarascorum* Steindachner.**

Lake Pátzcuaro, Mexico.

*Algansea tarascorum* Steindachner, Einige Fischarten Mexico's, 11, pl. 3, figs. 2-2c, Lake Pátzcuaro, near City of Mexico.**351. *Algansea dugesi* Bean.**

Central Mexico, in streams tributary to Rio de Lerma.

*Algansea dugesi* Bean, Proc. U. S. Nat. Mus. 1892, 283, Lake Yuriria, Guanajuato, Mexico.**352. *Algansea sallæi* (Günther).**

Streams of central Mexico.

*Ceratichthys sallæi* Günther, Cat., VII, 484, 1868, Cuernavaca, Mexico.**Genus 108. HYBOGNATHUS Agassiz.***Hybognathus* Agassiz, Am. Jour. Sci. Arts 1855, 223 (*nuchalis*).Subgenus HYBOGNATHUS Agassiz. *i* *Geminus***353. *Hybognathus nuchale* Agassiz. Silvery Minnow; Gudgeon.**

Clear streams from Delaware and Neuse rivers to Nebraska and southward to Georgia and Texas.

*Hybognathus nuchalis* Agassiz, Am. Jour. Sci. Arts 1855, 224, Quincy, Illinois.**353a. *Hybognathus nuchale evansi* (Girard).**

Upper Missouri Basin

*Hybognathus evansi* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 182, Fort Pierre, Nebraska.**354. *Hybognathus argyritæ* Girard.**

Upper Missouri region and Red River of the North.

*Hybognathus argyritis* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 182, Milk River.**355. *Hybognathus hayi* Jordan.**

Lower Mississippi Valley and neighboring rivers in Mississippi.

*Hybognathus hayi* Jordan, Proc. U. S. Nat. Mus. 1884, 548, Pearl River, Miss.**Subgenus DIONDA Girard.***Dionda* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 177 (*episcopa*).**356. *Hybognathus serenum* (Girard).**

Rivers of western Texas.

*Dionda serena* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 177, Sabinal River, Texas.**357. *Hybognathus episcopum* (Girard).**

Rivers of western Texas and northeastern Mexico from Rio Comal to Rio Grande.

*Dionda episcopa* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 177, headwaters of Pecos River, and Comanche Spring, tributary to Rio Grande, Texas.**358. *Hybognathus nubilum* (Forbes).**

Western Illinois, west to Wyoming and southwest to the Ozark region.

*Alburnops nubilus* Forbes, Bull. Ill. Lab. Nat. Hist., II, 56, 1878, Rock River, Ogle County, Illinois.**359. *Hybognathus amarum* (Girard).**

Rio Grande Basin.

*Algoma amara* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 180, lagoon near Fort Brown, Texas.**360. *Hybognathus melanops* (Girard).**

Streams of Coahuila, Chihuahua, and Nuevo Leon, Mexico.

*Dionda melanops* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 178, Buena Vista, Coahuila, Mexico.**361. *Hybognathus plumbeum* (Girard).**

Tributaries of Arkansas River in Indian Territory.

*Dionda plumbea* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 178, Canadian River.



Genus 109. **PIMEPHALES** Rafinesque. *Fat-heads.*

*Pimephales* Rafinesque, Ichth. Ohiensis, 52, 1820 (*promelas*).

362. **Pimephales promelas** Rafinesque. *Fat-head; Black-head Minnow.*

Lake Champlain to Kentucky, the Dakotas, and Rio Grande.

*Pimephales promelas* Rafinesque, Ichth. Ohiensis, 53, 1820, pond near Lexington, Kentucky.

362a. **Pimephales promelas maculosus** (Girard).

Arkansas River; locally abundant.

*Pimephales maculosus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 180, sluices of Arkansas River, Fort Makee, Arkansas.

362b. **Pimephales promelas confertus** (Girard).

Upper Rio Grande Basin; Chihuahna River, Mexico.

*Hyborhynchus confertus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 179, Hurrah Creek, a tributary of Pecos River, Texas.

363. **Pimephales notatus** (Rafinesque). *Blunt-nosed Minnow.*

Generally very abundant in small streams west of the Alleghanies and in the St. Lawrence River basin.

*Minnilus notatus* Rafinesque, Ichth. Ohiensis, 47, 1820, Ohio River.

Genus 110. **MYLOPHARODON** Ayres.

*Mylopharodon* Ayres, Proc. Cal. Ac. Sci. 1855, 33 (*robustus* = *conocephalus*).

364. **Mylopharodon conocephalus** (Baird & Girard).

Sacramento and San Joaquin rivers, California.

*Gila conocephala* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 134, San Joaquin River, California.

Genus 111. **MYLOCHEILUS** Agassiz.

*Mylocheilus* Agassiz, Am. Jour. Sci. Arts 1855, 229 (*lateralis* = *caurinus*).

365. **Mylocheilus caurinus** (Richardson). *Columbia Chub.*

Streams of Oregon and Washington from Frazer River to the Columbia.

*Cyprinus (Leuciscus) caurinus* Richardson, Fauna Boreali-Amer., III, 304, 1836, Columbia River at Fort Vancouver.

Genus 112. **STYPODON** Garman.

*Stypodon* Garman, Bull. Mus. Comp. Zool., VIII, 90, 1881 (*signifer*).

366. **Stypodon signifer** Garman.

Lago de Parras, an isolated lagoon in Coahuila, Mexico.

*Stypodon signifer* Garman, Bull. Mus. Comp. Zool., VIII, 90, 1881, Lago de Parras, Coahuila, Mexico.

Genus 113. **SEMOTILUS** Rafinesque. *Fall-fishes.*

*Semotilus* Rafinesque, Ichth. Ohiensis, 49, 1820 (*dorsalis* = *atromaculatus*).

~~Subgenus~~ **LEUCOSOMUS** Heckel.

*Leucosomus* Heckel, Russegger's Reisen, I, 1042, 1843 ("chrysolenous" = *corporalis*).

367. **Semotilus corporalis** (Mitchill). *Fall-fish; Silver Chub; Wind-fish; Corporal.*

Abundant from St. Lawrence River to the James, east of the Alleghanies.

*Cyprinus corporalis* Mitchill, Amer. Month. Mag., I, July, 1817, 289, Wallkill River, New York.

Subgenus **SEMOTILUS** Rafinesque.

368. **Semotilus atromaculatus** (Mitchill). *Horned Dace; Creek Chub.*

Maine and western Massachusetts, westward to Kansas and Wyoming.

*Cyprinus atromaculatus* Mitchill, Amer. Month. Mag., II, 1818, 324, Wallkill River, New York.

⇒ *Spinicephalus fibulatus* Le Sueur. Vaillant  
Bull Soc Philom, 1896. VIII,  
72, 14 with pl. 26, (Planches  
inédites de Le Sueur)

*Psychocharilus grandis* Agassiz  
Sacramento etc. good sp.

311 = *grandis* probably.  
pt. *unipuncta*?

**368a. *Semotilus atromaculatus thoreauianus* (Jordan).**

Streams of Georgia and Alabama.

*Semotilus thoreauianus* Jordan, Bull. U. S. Nat. Mus., x, 63, 1877, Flint River, Georgia.**Genus 114. *POGONICHTHYS* Girard.***Pogonichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 136 (*inæquilobus* = *macrolepidotus*).**369. *Pogonichthys macrolepidotus* (Ayres). *Split-tail*.**

Lowland streams of California.

*Leuciscus macrolepidotus* Ayres, Placer Times and Transcript, May 30, 1854, San Francisco.**Genus 115. *PTYCHOCHEILUS* Agassiz.***Ptychocheilus* Agassiz, Am. Jour. Sci. Arts 1855, 229 (*gracilis* = *oregonensis*).**370. *Ptychocheilus oregonensis* (Richardson). *Squawfish*; *Chappaul*; *Yellowbelly*; *Sacramento Pike*.**

Rivers of Oregon and Washington, in the Columbia basin to Montana and Idaho, and northward to British Columbia; also in the Sacramento, San Joaquin, Salinas, and Pajaro rivers of California.

*Cyprinus (Leuciscus) oregonensis* Richardson, Fauna Bor.-Amer., III, 305, 1836, Columbia River.**371. *Ptychocheilus harfordi* Jordan & Gilbert.**

Lower Sacramento River, California.

*Ptychocheilus harfordi* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 72, Sacramento River, California.**372. *Ptychocheilus lucius* Girard. "*White Salmon*" of the Colorado.**

Colorado Basin; abundant.

*Ptychocheilus lucius* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 209, Rio Colorado.**Genus 116. *GILA* Baird & Girard.***Gila* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 368 (*robusta*).**373. *Gila elegans* Baird & Girard. *Bony-tail*; "*Gila Trout*."**

Colorado and Gila rivers.

*Gila elegans* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 369, Zúñi, Colorado, and Gila rivers.**374. *Gila robusta* Baird & Girard. *Round-tail*.**

Tributaries of the Rio Colorado and Rio Gila.

*Gila robusta* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 368, Zúñi River, New Mexico.**375. *Gila seminuda* Cope & Yarrow. *x elegans***

Rio Virgen, in Utah and Nevada.

*Gila seminuda* Cope & Yarrow, Zool. Wheeler's Expl. W. 100th Mer., v, 666, 1875 (1876), Rio Virgen, Nevada.**Genus 117. ~~LEUCISCUS~~ Cuvier. *Richardson****Leuciscus* (Klein) Cuvier, Règne Animal, ed. I, 194, 1817 (*dobula*, *rutilus*, *leuciscus*, *alburnus*, and *phoxinus*).**~~Subgenus~~ *SIBOMA* Girard.***Siboma* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 208 (*crassicauda*).**376. *Leuciscus crassicauda* (Baird & Girard). *Sacramento Chub*.**

Rivers of California; generally abundant in the Sacramento and San Joaquin.

*Lavinia crassicauda* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 137, San Joaquin River, California.

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*Spogenus* **TIGOMA** Girard.

*Tigoma* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 205 (*pulchella* = *nigrescens*).

377. **Leuciscus conformis** (Baird & Girard).

Tulare Valley, California.

*Larinia conformis* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 137, Poos Creek, Tulare County, California.

378. **Leuciscus bicolor** (Girard).

Klamath Lake, Oregon.

*Tigoma bicolor* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 206, Klamath Lake, Oregon.

379. **Leuciscus lineatus** (Girard). *Great Chub; Chub of Utah Lake.*

Great Basin of Utah, and Snake River basin above Shoshone Falls.

*Tigoma lineata* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 206, locality unknown.

380. **Leuciscus nigrescens** (Girard). *Pescadito; Chub of the Rio Grande.*

Rio Grande Basin.

*Tigoma nigrescens* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 207, Boca Grande and Rio Janos, Chihuahua.

381. **Leuciscus purpureus** (Girard).

San Bernardino Creek in southern Arizona, a tributary of Rio Yaqui.

*Tigoma purpurea* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 206, San Bernardino Creek, Arizona.

382. **Leuciscus intermedius** (Girard).

Basin of the Gila River, Arizona.

*Tigoma intermedia* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 206, Rio San Pedro of the Gila, Arizona.

383. **Leuciscus niger** (Cope).

Rio Gila, Arizona.

*Gila nigr* Cope, Zool. Wheeler's Expl. W. 100th Mer., v, 663, 1875 (1876), Ash Creek and San Carlos, Arizona.

384. **Leuciscus aliciae** (Jouy). *Leather-sided Minnow.*

Great Basin of Utah and Wood River, Idaho.

*Squalius aliciae* Jouy, Proc. U. S. Nat. Mus. 1881, 19, Provo River near Utah Lake, Utah.

Subgenus **CHEONDA** Girard.

*Cheonda* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 207 (*cooperi*).

385. **Leuciscus cooperi** (Girard).

Lower Columbia River basin.

*Cheonda cooperi* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 207, Fort Vancouver, Washington.

386. **Leuciscus humboldti** (Girard).

Humboldt River, Nevada.

*Tigoma humboldti* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 206, Humboldt River, Nevada.

387. **Leuciscus egregius** (Girard).

Nevada to northern California; known from the Humboldt and Truckee basins and from Napa Valley, California.

*Tigoma egregia* Girard, Pac. R. R. Surv., x, 291, 1858, locality unknown.

388. **Leuciscus hydrophlox** (Cope). *Silver-sided Minnow; "Po-he-wa."*

Salt Lake Basin and upper Snake River.

*Clinostomus hydrophlox* Cope, Hayden's Geol. Surv. Mont. for 1871 (1872), 475, Blackfoot Creek, Idaho.

should stand as *atraneis*. Snyder  
lineatus, type and locality lost. a slender  
pub. like *egregius*.

*atraneis* from Paugmish or  
Fish Springs, Tooele Co. Utah.

valid

<sup>Res Santa Cruz, Qld</sup>  
<sup>Fish Creek</sup>  
*gibbos. nigra* and *intermedia* are the same.

*gracilis* lost. loc. unknown, not identified.

*Leuciscus nachtriebi* Cox, Minnesota

loc. unknown

probably Smiley or the Humboldt

See Snyder Proc. 49.52.

Cyprinus bartonius from  
..... Barton Mine Mo.  
Le Sueur in Vaillant. B.S. Philom  
1896.28.  
plate met.  
= ? neogaeus,

## Subgenus RICHARDSONIUS Girard.

*Richardsonius* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 201 (*balteatus*).389. *Leuciscus balteatus* (Richardson).

Columbia and Frazer rivers, and streams about Puget Sound.

*Cyprinus* (*Abramis*) *balteatus* Richardson, Fauna Bor.-Amer., III, 301, 1836, Columbia River.

## Subgenus CLINOSTOMUS Girard.

*Clinostomus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 211 (*elongatus*).390. *Leuciscus vandoisulus* Cuvier & Valenciennes.

Streams east of the Alleghenies from Virginia to Georgia and in the Tennessee and Cumberland rivers.

*Leuciscus vandoisulus* Cuvier & Valenciennes, Hist. Nat. Poiss., XVII, 317, 1844, South Carolina.391. *Leuciscus elongatus* (Kirtland). *Red-sided Shiner*.

Great Lakes and Upper Mississippi Valley.

*Luxilus elongatus* Kirtland, Rept. Zool. Ohio, 169, 1836, Mahoning River, Trumbull County, Ohio, and Lake Erie near Cleveland.Subgenus PHOXINUS Rafinesque. *Margariscus Cockerell*.*Phoxinus* Rafinesque, Ichth. Ohienensis, 45, 1820 (no type stated, *phoxinus* understood).392. *Leuciscus nachtriebi* Cox.

Lakes in Mississippi Valley in Minnesota.

*Leuciscus nachtriebi* Cox, Rept. U. S. Fish Com. 1894 (1896), Mille Lacs, Aitkin County, Minnesota.393. *Leuciscus neogæus* (Cope). *P. virens Jordan*

Upper Mississippi Valley and neighboring waters.

*Phoxinus neogæus* Cope, Cypr. Penn., 375, 1866, New Hudson, Michigan.394. *Leuciscus margarita* (Cope). *Margariscus Cockerell*.

Susquehanna River to James River and headwaters of the Kanawha.

*Clinostomus margarita* Cope, Cypr. Penn., 377, 1866, Conestoga River, Lancaster, Pennsylvania.395. *Leuciscus orcutti* (Eigenmann & Eigenmann). *Temecula Cockerell*.

Temecula, San Luis Rey, San Jacinto, and Santa Ana rivers, California.

*Phoxinus orcutti* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., 2d series, III, 1890, 2. Temecula River, Riverside County, California.

## Subgenus HEMITREMIA Cope.

*Hemitremia* Cope, Proc. Amer. Philos. Soc. 1870, 462 (*vittata* = *flammeus*).396. *Leuciscus milnerianus* (Cope).

Upper Missouri River basin.

*Phoxinus milnerianus* Cope, Am. Nat., July, 1879, 440, upper Missouri River basin, probably Battle Creek, Montana.397. *Leuciscus flammeus* (Jordan & Gilbert).

Tributaries of Tennessee River; common in clear streams in northern Alabama.

*Phoxinus flammeus* Jordan & Gilbert, in Jordan, Man. Vert. E. U. S., ed. 2, 303, 1878, Elk River, Estill Springs, Tennessee.

## Subgenus IOTICHTHYS Jordan &amp; Evermann.

*Iotichthys* Jordan & Evermann, Fishes North and Middle America, 228, 1896 (*phlegethontis*).398. *Leuciscus phlegethontis* (Cope).

Tributaries of Great Salt Lake and Sevier Lake, Utah.

*Clinostomus phlegethontis* Cope, Proc. Amer. Philos. Soc. Phila. 1874, 137, Beaver River, Utah.



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Genus 118. **RUTILUS** Rafinesque. *The Roaches.*

*Rutilus* Rafinesque, Ichth. Ohiensis, 48, 50, 1820 (*rutilus*).

Subgenus **LEUCOS** Heckel.

*Leucos* Heckel, Russegger's Reisen, 1, 1038, 1843 (*cisalpinus*).

399. **Rutilus olivaceus** (Cope).

Lake Tahoe; Pyramid Lake.

*Leucos olivaceus* Cope, Proc. Ac. Nat. Sci. Phila. 1883, 145, Pyramid Lake, Nevada.

Subgenus **MYLOLEUCUS** Cope.

*Myloleucus* Cope, Bull. Hayden's Geol. Surv. Mont. for 1871 (1872), 475 (*pulverulentus* = *symmetricus*).

400. **Rutilus bicolor** (Girard).

Lakes of southeastern Oregon (Klamath, Warner, Goose, etc.).

*Algansea bicolor* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 183, Klamath Lake, Oregon.

401. **Rutilus symmetricus** (Baird & Girard).

Rivers of California and Nevada.

*Pogonichthys symmetricus* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 136, Fort Miller, San Joaquin Valley, California.

402. **Rutilus boucardi** (Günther).

Cuernavaca, Mexico.

*Leuciscus boucardi* Günther, Cat., VII, 485, 1868, Cuernavaca, Mexico.

403. **Rutilus thoburni** Scofield.

Rio San Lorenzo, Santa Cruz, California.

*Rutilus thoburni* Scofield, Proc. Cal. Ac. Sci. 1896, Santa Cruz, California.

404. **Rutilus columbianus** Scofield.

Lower Columbia Basin.

*Rutilus columbianus* Scofield, Proc. Cal. Ac. Sci. 1896, Lower Columbia Basin.

*Ponkan*

Genus 119. **LUXILINUS** Jordan.

*Luxilinus* Jordan, Catalogue Fishes N. A., 33, 1885 (*occidentalis*).

405. **Luxilinus occidentalis** (Baird & Girard).

San Joaquin Valley, California.

*Leucosomus occidentalis* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 137, Poso Creek and Four Creeks, tributaries of Tulare Lake, California.

Genus 120. **OPSOPŒODUS** Hay.

*Opsopœodus* Hay, Proc. U. S. Nat. Mus. 1880, 507 (*emiliae*).

Subgenus **OPSOPŒODUS** Hay.

406. **Opsopœodus osculus** Evermann.

Rio Neches and other streams about Palestine and Houston, Texas.

*Opsopœodus osculus* Evermann, Bull. U. S. Fish Com. 1891 (1892), 82, Neches River, near Palestine, Texas.

407. **Opsopœodus emiliae** Hay.

Lake Erie and southern Indiana to Georgia and Mississippi.

*Opsopœodus emiliae* Hay, Proc. U. S. Nat. Mus. 1880, 507, Artesia, Macon, and Enterprise, Mississippi.

408. **Opsopœodus megalops** (Forbes).

Western Ohio to Illinois.

*Trycherodon megalops* Forbes, in Jordan & Gilbert, Synopsis, 247, 1883, Illinois River at Pekin and Peoria, Illinois.

Siphoteles  
Heteroleucus etc  
Guccidium per siphon.

no value.

obscure. a sp. Siphoteles  
shrub-like. probably

Rubus

Scorpaena

int. Oceanus Lake

Lupinus = young ?  
Lavinia exilicauda

rain?

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

Subgenus OPSOPŒA Jordan & Evermann.

*Opsopœa* Jordan & Evermann, Fishes North and Middle America, 247, 1896 (*bolmani*).

409. *Opsopœodus bolmani* Gilbert.

Swamp streams of Georgia, and Obion River, Cypress, Tennessee.

*Opsopœodus bolmani* Gilbert, Bull. U. S. Fish Com., VIII, 1888 (1890), 226, Buckland Creek, Millen, Georgia.

Genus 121. ~~ABRAMIS~~ Cuvier. *NOTEMIGONUS*.

*Abramis* Cuvier, Règne Animal, ed. I, 111, 1817 (*brama*).

*BRAMA K  
repleyana*

Subgenus NOTEMIGONUS Rafinesque.

*Notemigonus* Rafinesque, Jour. Phys. 1819, 421 (*auratus*).

410. *Abramis crysoleucas* (Mitchill). *Golden Shiner; Roach; Bream.*

Nova Scotia and Maryland to Dakota and Texas.

*Cyprinus crysoleucas* Mitchill, Rept. Fish. N. Y., 23, 1814, New York.

410a. *Abramis crysoleucas bosci* (Cuvier & Valenciennes).

Rivers of the South Atlantic States.

*Leuciscus bosci* Cuvier & Valenciennes, Hist. Nat. Poiss., XVII, 313, 1844, Carolina, Pennsylvania, and New York.

411. *Abramis gardoneus* (Cuvier & Valenciennes).

South Carolina.

*Leuciscus gardoneus* Cuvier & Valenciennes, Hist. Nat. Poiss., XVII, 316, 1844, Charleston, South Carolina.

Genus 122. COCHLOGNATHUS Baird & Girard.

*Cochlognathus* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 158 (*ornatum*).

412. *Cochlognathus ornatum* Baird & Girard.

Rio Grande basin.

*Cochlognathus ornatus* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 158, Brownsville, Texas.

413. *Cochlognathus biguttatum* Cope.

Trinity River, Texas.

*Cochlognathus biguttata* Cope, Bull. U. S. Nat. Mus., XVII, 37, 1880, Trinity River, Fort Worth, Texas.

Genus 123. ~~CLIOLA~~ Girard.

*Cliola* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 192 (*vigilax*).

*Ceraticichthys B. & G.*

414. *Cliola vigilax* (Baird & Girard).

Ohio to Georgia, Iowa, and Texas.

*Ceraticichthys vigilax* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 390, Otter Creek, North Fork of Red River, Arkansas.

415. *Cliola smithii* Evermann & Cox.

Prairie Creek near Scotland, South Dakota.

*Cliola smithii* Evermann & Cox, Rept. U. S. Fish Com. 1894 (1896), 400, Prairie Creek, Scotland, South Dakota.

Genus 124. NOTROPIS Rafinesque.

*Notropis* Rafinesque, Amer. Month. Mag., II, 1818, 204 (*atherinoides*).

Subgenus AZTECA <sup>U. S.</sup> Jordan & Evermann.

*Azteca* Jordan & Evermann, Fishes North and Middle America, 254, 1896 (*retata* = *aztecus*).

416. *Notropis aztecus* Woolman.

Valley of Mexico.

*Notropis aztecus* Woolman, Bull. U. S. Fish Com., XIV, 1894, 63, City of Mexico.

Subgenus *CHRIOPE* Jordan.

*Chriope* Jordan, Bull. Hayden's Surv. Terr., iv, 787, 1878 (*bifrenatus*).

417. *Notropis bifrenatus* (Cope).

Massachusetts to Maryland.

*Hybopsis bifrenatus* Cope, Cypr. Penn., 384, 1866, Schuylkill River, Conshohocken, Pennsylvania.

418. *Notropis maculatus* (Hay).

Chickasawha River, Mississippi.

*Hemitremia maculata* Hay, Proc. U. S. Nat. Mus. 1880, 505, Chickasawha River, Enterprise, Mississippi.

419. *Notropis anogenus* Forbes.

Western New York (Cayuga Lake) to northern Illinois.

*Notropis anogenus* Forbes, Bull. Ill. Lab. Nat. Hist., vol. II, art. 2, 138, 1885, Fox River, McHenry, Illinois.

420. *Notropis cayuga* Meek.

Connecticut River, Northern New York, and Upper Mississippi Valley.

*Notropis cayuga* Meek, Ann. Lyc. Nat. Hist. N. Y. 1888, 305, Cayuga Lake, New York.

420a. *Notropis cayuga atrocaudalis* Evermann.

Rio Neches, Palestine, Texas; also in Rio Comal at New Braunfels, Texas.

*Notropis cayuga atrocaudalis* Evermann, Bull. U. S. Fish. Com., XI, 1891 (1892), 76, Neches River, Palestine, Texas.

421. *Notropis heterodon* (Cope).

New York to Michigan and Kansas.

*Alburnops heterodon* Cope, Proc. Ac. Nat. Sci. Phila. 1864, 281, Lansing and Grosse Isle, Michigan.

*Hybopsis*

Subgenus *ALBURNOPS* Girard.

*Alburnops* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 194 (*blennius*).

422. *Notropis fretensis* (Cope).

Detroit River, Michigan.

*Hybopsis fretensis* Cope, Cypr. Penn., 382, 1866, Detroit, Michigan.

423. *Notropis blennius* (Girard). *Straw-colored Minnow*.

Ohio and Michigan to Tennessee, Dakota, and Kansas, thence southwestward to Texas.

*Alburnops blennius* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 194, Arkansas River near Fort Smith, Arkansas.

424. *Notropis sabinæ* Jordan & Gilbert.

Sabine River, Texas.

*Notropis sabinæ* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 15, Sabine River at Longview, Texas.

425. *Notropis volucellus* (Cope).

Michigan, Wisconsin, and northern Indiana.

*Hybognathus volucellus* Cope, Proc. Ac. Nat. Sci. Phila. 1864, 283, Grosse Isle, Detroit River, Michigan.

426. *Notropis scylla* (Cope).

Illinois River to western Kansas and Montana.

*Hybopsis scylla* Cope, Hayden's Geol. Surv. Wyo. for 1870 (1871), 438, Red Cloud Creek, tributary of Platte River, Nebraska.

427. *Notropis procne* (Cope).

Delaware River and southward, in coastwise streams, as far as the Neuse.

*Hybognathus procne* Cope, Proc. Ac. Nat. Sci. Phila. 1864, 279, Delaware, Schuylkill, and Conestoga rivers, and White Clay Creek, Pennsylvania.

<sup>422</sup>  
~~419~~ = *Corynella whipplei* Fiedershuber.

In this *Hydrobia*?

*Hydrobia gracilis*.

.

Phutensis  
no,

**428. *Notropis nigrotæniatus* (Günther).**

Atlisco, Mexico.

*Graodus nigrotæniatus* Günther, Cat., VII, 485, 1868, Atlisco, Mexico.**429. *Notropis kanawha* Jordan & Jenkins.**

Tributaries of Kanawha River, southwestern Virginia.

*Notropis kanawha* Jordan & Jenkins, Proc. U. S. Nat. Mus. 1888, 354, pl. 44, fig. 5, Reed Creek, Wytheville, Virginia.**430. *Notropis braytoni* Jordan & Evermann.**

Tributaries of Rio San Juan at Cadereita in Nuevo Leon, Mexico.

*Notropis braytoni* Jordan & Evermann, Fishes North and Middle America, 264, 1896, Cadereita, Mexico; substitute for *Moniana nitida* Girard, preoccupied. *nitida***431. *Notropis spectrunculus* (Cope).**

Headwaters of Tennessee River in Tennessee, Virginia, and North Carolina.

*Hybopsis spectrunculus* Cope, Jour. Ac. Nat. Sci. Phila. 1868, 231, Bear Creek, tributary of Middle Fork of Holston River, Virginia.**432. *Notropis ozarcanus* Meek.**

White River, Arkansas, in the Ozark Mountains.

*Notropis ozarcanus* Meek, Bull. U. S. Fish. Com., IX, 1889 (1891), 129, North Fork of White River, Arkansas.**433. *Notropis chihuahua* Woolman.**

Rio de los Conchos, Chihuahua, Mexico.

*Notropis chihuahua* Woolman, Am. Nat., March, 1892, 260, Rio de los Conchos, Chihuahua, Mexico.**434. *Notropis topeka* Gilbert.**

Western Iowa and eastern South Dakota to Kansas.

*Notropis topeka* Gilbert, Bull. Washburn Lab. Nat. Hist., I, 13, 1884, Shunganunga Creek, Topeka, Kansas.**Subgenus HUDSONIUS Girard.***Hudsonius* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 210 (*hudsonius*).**435. *Notropis gilberti* Jordan & Meek.**

Eastern Iowa to eastern Colorado.

*Notropis gilberti* Jordan & Meek, Proc. U. S. Nat. Mus. 1885, 4, Des Moines River and Village Creek, Ottumwa, Iowa.**436. *Notropis piptolepis* (Cope).**

North Platte River.

*Photogenis piptolepis* Cope, Hayden's Geol. Surv. Wyo. for 1870 (1871), 438, Red Cloud Creek, a tributary of North Platte River, Nebraska.**437. *Notropis simus* (Cope).**

Rio Grande at San Ildefonso, New Mexico.

*Alburnellus simus* Cope, Zool. Wheeler Surv., v, 649, 1875 (1876), San Ildefonso, New Mexico.**438. *Notropis longirostris* (Hay).**

Chickasawha River, Mississippi, to Escambia River, Florida.

*Alburnops longirostris* Hay, Proc. U. S. Nat. Mus. 1880, 504, Chickasawha River at Enterprise, Mississippi.**439. *Notropis nux* Evermann.**

Neches and Trinity rivers near Palestine, Texas.

*Notropis nux* Evermann, Bull. U. S. Fish Com., XI, 1891 (1892), 77, Neches River, Palestine, Texas.**440. *Notropis nocomis* Evermann.**

Trinity, San Marcos, and Comal rivers, Texas.

*Notropis nocomis* Evermann, Bull. U. S. Fish Com., XI, 1891 (1892), 78, Trinity River, Palestine, Texas, and San Marcos River, San Marcos, Texas.



**441. *Notropis shumardi* (Girard).**

Ohio and Tennessee basins to Iowa and the Ozark region.

*Alburnops shumardi* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 194, Arkansas River, Fort Smith, Arkansas.

**442. *Notropis illecebrosus* (Girard).**

Lower Arkansas River basin.

*Alburnops illecebrosus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 194, Arkansas River, Fort Smith, Arkansas.

**443. *Notropis hudsonius* (DeWitt Clinton). *Spawn-eater; Spot-tailed Minnow; Shiner.***

The Dakotas and Lake Superior to New York, and southward to South Carolina.

*Clupea hudsonia* DeWitt Clinton, Ann. Lyc. Nat. Hist. N. Y., 1, 1824, 49, Hudson River, New York.

**443a. *Notropis hudsonius selene* (Jordan).**

Lake Superior and neighboring waters.

*Luxilus selene* Jordan, Bull. U. S. Nat. Mus., x, 60, 1877, Lake Superior, Bay-field, Wisconsin.

**443b. *Notropis hudsonius amarus* (Girard).**

Delaware, Susquehanna, and Potomac rivers.

*Hudsonius amarus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 210, Chesapeake Bay and Potomac River at Washington.

**443c. *Notropis hudsonius saludanus* (Jordan & Brayton).**

Coastwise streams of Atlantic slope from James River to the Ocmulgee.

*Alburnops saludanus* Jordan & Brayton, Bull. U. S. Nat. Mus., xii, 16, 1878, tributary of Saluda River, Greenville, South Carolina.

Subgenus CODOMA Girard.

*Codoma* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 194 (*ornata*).

**444. *Notropis ornatus* (Girard).**

Chihuahua River, Mexico.

*Codoma ornata* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 195, Chihuahua River, Mexico.

Subgenus MONIANA Girard.

*Moniana* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 199 (*lutrensis*).

**445. *Notropis formosus* (Girard).**

Rio Mimbres, Chihuahua, Mexico.

*Moniana formosa* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 201, Rio Mimbres, Chihuahua, Mexico.

**446. *Notropis frigidus* (Girard).**

Rio Frio, Texas.

*Moniana frigida* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 200, Rio Frio, Texas.

**447. *Notropis lutrensis* (Baird & Girard).**

Southern Illinois to South Dakota, Kansas, and the Rio Grande.

*Leuciscus lutrensis* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 391, Otter Creek, tributary of the North Fork of Red River, Arkansas.

**448. *Notropis proserpina* (Girard).**

Rio Grande region.

*Moniana proserpina* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 200, Devil River, Texas.

**449. *Notropis callisema* (Jordan).**

Ocmulgee River, Georgia.

*Episema callisema* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 363, South Fork of Ocmulgee River, Flat Shoals, Georgia.

Hudsonius

CYPRINELLA

*Notropis chorotzei* Posters  
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Fulenberg Colo.

~~Subgenus~~ CYPRINELLA Girard.

*Cyprinella* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 196 (*bubalinus*).

**450. *Notropis bubalinus* (Baird & Girard).**

Streams of Arkansas and southwestward.

*Leuciscus bubalinus* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 391, Otter Creek, Arkansas.

**451. *Notropis ludibundus* (Girard).**

Locality unknown, probably Indian Territory.

*Cyprinella ludibunda* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 199, locality unknown.

**452. *Notropis macrostomus* (Girard).**

Rio Grande region, northward to Kansas.

*Cyprinella macrostoma* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Devil River, Texas.

**453. *Notropis texanus* (Girard).**

Rivers of Texas from Trinity River to the Salado.

*Cyprinella texana* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Rio Salado and Turkey Creek, Texas.

**454. *Notropis notatus* (Girard).**

Streams of Texas from Austin westward.

*Cyprinella notata* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Rio Seco, Texas.

**455. *Notropis venustus* (Girard).**

Streams of Texas.

*Cyprinella venusta* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Rio Sabinal, Texas.

**456. *Notropis cercostigma* (Cope).**

Streams tributary to the Gulf of Mexico, from Pearl River and Red River to Rio Nueces.

*Cyprinella cercostigma* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 157, Pearl River, Monticello, Mississippi.

**457. *Notropis stigmaturus* (Jordan). *Spotted-tail Minnow*.**

Alabama River basin.

*Photogenis stigmaturus* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 337, Etowah River, etc., Rome, Georgia.

**458. *Notropis trichroistius* (Jordan & Gilbert).**

Alabama River basin.

*Codoma trichroistia* Jordan & Gilbert, Bull. U. S. Nat. Mus., xii, 50, 1878, Etowah River, etc., Rome, Georgia.

**459. *Notropis callistius* (Jordan).**

Alabama River basin.

*Photogenis callistius* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 337, Etowah River, etc., Rome, Georgia.

**460. *Notropis eurystomus* (Jordan).**

Chattahoochee River.

*Photogenis eurystomus* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 356, Nancy Creek, tributary of Chattahoochee River, near Atlanta, Georgia.

**461. *Notropis cæruleus* (Jordan).**

Alabama River basin.

*Photogenis cæruleus* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 338, Etowah River, Rome, Georgia.

**462. *Notropis niveus* (Cope).**

Southern Virginia to South Carolina.

*Hybopsis niveus* Cope, Proc. Amer. Phil. Soc. Phila. 1870, 460, Catawba River, North Carolina.

**462a. *Notropis niveus chloristius* (Jordan & Brayton).**

Santee River and tributaries.

*Codoma chloristia* Jordan & Brayton, Bull. U. S. Nat. Mus., xii, 21, 1878, tributary of Saluda River, Greenville, South Carolina.

**463. *Notropis whipplii* (Girard). *Silver-fin*; *Satin-fin*.**

Central and northern New York to Minnesota, northern Alabama, and Arkansas.

*Cyprinella whipplii* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Sugar Loaf Creek, a tributary of Poteau River, Arkansas.

**464. *Notropis analostanus* (Girard).**

Streams about Delaware and Chesapeake bays.

*Cyprinella analostana* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Potomac River at Analostan Island, Washington, D. C.

**465. *Notropis galacturus* (Cope).**

Ozark region to Cumberland, Tennessee, and Savannah rivers.

*Hypsilepis galacturus* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 160, Holston River, Virginia.

**466. *Notropis camurus* (Jordan & Meek).**

Arkansas River and tributaries.

*Cliola camura* Jordan & Meek, Proc. U. S. Nat. Mus. 1884, 474, Arkansas River, Fort Lyon, Colorado.

**467. *Notropis xænurus* (Jordan).**

Altamaha River basin, Georgia.

*Minnilus xænurus* Jordan, Proc. Ac. Nat. Sci. Phila. 1877, 79, Ocmulgee River, Flat Shoals, Georgia.

**468. *Notropis hypselopterus* (Günther).**

Southern Georgia and Alabama.

*Leuciscus hypselopterus* Günther, Cat., VII, 255, 1868, Mobile, Alabama.

**469. *Notropis pyrrhomelas* (Cope).**

North and South Carolina in the Santee Basin.

*Photoenia pyrrhomelas* Cope, Proc. Amer. Phil. Soc. Phila. 1870, 463, Catawba River, North Carolina.

**470. *Notropis garmani* Jordan.**

Tributaries of Lago del Muerte, Coahuila, Mexico.

*Notropis garmani* Jordan, Cat. Fish. N. Am., 25, 1885, Lago del Muerte, Coahuila, Mexico.

**Syngenus LUXILUS Rafinesque.**

*Luxilus* Rafinesque, Ichth. Obiensis, 47, 1820 (*chrysocephalus*).

**471. *Notropis cornutus* (Mitchill). *Shiner*; *Red-fin*; *Dace*.**

Entire region east of the Rocky Mountains except the South Atlantic States and Texas.

*Cyprinus cornutus* Mitchill, Amer. Month. Mag. Crit. Review, I, 1817, 289, Wallkill River, New York.

**471a. *Notropis cornutus frontalis* (Agassiz).**

Great Lakes; everywhere common in mouths of brooks.

*Leuciscus frontalis* Agassiz, Lake Superior, 368, 1850, Lake Superior.

**471b. *Notropis cornutus cyaneus* (Cope).**

Northern peninsula of Michigan.

*Hypsilepis cornutus cyaneus* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 160, Montreal River, Keweenaw, Michigan.

**472. *Notropis cerasinus* (Cope).**

Roanoke River basin, in mountain brooks.

*Hypsilepis cornutus cerasinus* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 159, headwaters of Roanoke River, Virginia.



*Coccothraupis* *Coeloceryx* *Callaurea* 1902.  
*Coccyzus* *Jordan*. *Rept.* *Zool* on *Coccothraupis*.  
11, 1882. p. 852. same year

**473. *Notropis albeolus* (Jordan).**

Roanoke, Tar, and Neuse rivers.

*Notropis megalops albeolus* Jordan, Bull. U. S. Fish Com. 1888 (1891), 123, Roanoke River near Roanoke, Virginia.**474. *Notropis lacertosus* (Cope).**

Headwaters of Tennessee River.

*Hybopsis lacertosus* Cope, Jour. Ac. Nat. Sci. Phila. 1868, 232, Bear Creek, tributary of the Middle Fork of Holston River.Subgenus **HYDROPHLOX** Jordan.*Hydrophlox* Jordan, Bull. U. S. Nat. Mus., xii, 18, 1878 (*rubricroceus*).**475. *Notropis macdonaldi* Jordan & Jenkins.**

Mountain streams of Virginia tributary to James and Shenandoah rivers.

*Notropis macdonaldi* Jordan & Jenkins, Proc. U. S. Nat. Mus. 1888, 354, Shenandoah River, Luray, Virginia.**476. *Notropis coccogenis* (Cope).***Coccos*

Cumberland, Tennessee, and Savannah rivers.

*Hypsilepis coccogenis* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 160, Holston River, Virginia.**477. *Notropis zonatus* (Agassiz).**

Mountain streams in the Ozark region of Missouri and Arkansas.

*Alburnus zonatus* Agassiz, in Putnam, Bull. Mus. Comp. Zool., 1, 9, 1863, Osage River, Missouri.**478. *Notropis zonistius* (Jordan).**

Chattahoochee River.

*Luxilus zonistius* Jordan, Proc. U. S. Nat. Mus. 1879, 239, Suwanee Creek, tributary of Chattahoochee River, in northern Georgia.**479. *Notropis rubricroceus* (Cope). *Red Fallfish.*****HYDROPHLOX**

Headwaters of the Tennessee and Savannah rivers.

*Hybopsis rubricroceus* Cope, Jour. Ac. Nat. Sci. Phila. 1868, 231, Tumbling Creek, tributary of the North Fork of Holston River, Virginia.**480. *Notropis chlorocephalus* (Cope).**

Santee Basin, in North and South Carolina.

*Hybopsis chlorocephalus* Cope, Proc. Amer. Phil. Soc. Phila. 1870, 461, Catawba River, North Carolina.**481. *Notropis lutipinnis* (Jordan & Brayton).**

Santee and Oconee rivers, Georgia.

*Hydrophlox lutipinnis* Jordan & Brayton, Bull. U. S. Nat. Mus., xii, 36, 1878, Oconee River, Halls Springs, Georgia.**482. *Notropis chiliticus* (Cope).**

Basin of Great Pedee River, North Carolina; common in upland streams.

*Hybopsis chiliticus* Cope, Proc. Amer. Phil. Soc. Phila. 1870, 462, Yadkin River, Rowan County, North Carolina.**483. *Notropis altipinnis* (Cope).**

Yadkin, Great Pedee, and Cape Fear rivers, North Carolina.

*Alburnellus altipinnis* Cope, Proc. Amer. Phil. Soc. Phila. 1870, 464, Yadkin River, Rowan County, North Carolina.**484. *Notropis roseus* (Jordan).**

Lowland streams of Gulf States from Ogeechee River to the Mississippi.

*Luxilus roseus* Jordan, Bull. U. S. Nat. Mus., x, 61, 1877, Notalbany River near Tickfaw, Louisiana.**485. *Notropis chalybæus* (Cope).**

Delaware River to Ogeechee River.

*Hybopsis chalybæus* Cope, Cypr. Penn., 383, 1866, Schuylkill River, Pennsylvania.



486. *Notropis chrosomus* (Jordan).

Alabama Basin; very abundant in clear streams and outlets of springs.  
*Hybopsis chrosomus* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 333, Etowah River,  
etc., Rome, Georgia.

487. *Notropis xænocephalus* (Jordan).

Georgia to Mississippi; common in streams of the pine woods, descending to  
brackish water; abundant in Perdido Bay.  
*Hybopsis xænocephalus* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 334, Etowah  
River, etc., Rome, Georgia.

Subgenus ORCELLA Jordan & Evermann.

*Orcella* Jordan & Evermann, Fishes North and Middle America, 289. 1885  
(orca).

488. *Notropis orca* Woolman.

Rio Grande at El Paso, Texas.  
*Notropis orca* Woolman, Bull. U. S. Fish. Com., xiv, 1894, 56, Rio Grande,  
El Paso, Texas.

Subgenus NOTROPIS Rafinesque.

489. *Notropis ariommus* (Cope).

Ohio and Tennessee valleys.  
*Photogenis ariommus* Cope, Cypr. Penn., 378, 1866, White River near Indian-  
apolis.

490. *Notropis scabriceps* (Cope).

Kanawha River, West Virginia.  
*Photogenis scabriceps* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 166, Sinking and  
Walker creeks, tributaries of Kanawha River.

491. *Notropis jejunus* (Forbes).

Western Pennsylvania to Kansas, and north to Winnipeg.  
*Episema jejuna* Forbes, Bull. Ill. Lab. Nat. Hist., i, 60, 1878, Illinois River.

492. *Notropis swaini* Jordan.

Rivers of Texas from the Colorado westward.  
*Notropis swaini* Jordan, Proc. U. S. Nat. Mus. 1885, 123, Rio Comal, New Braun-  
fels, Texas.

493. *Notropis amabilis* (Girard).

Rio Leona, a tributary of Rio Nueces, Texas.  
*Alburnus amabilis* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 193, Rio Leona,  
Texas.

494. *Notropis leuciodus* (Cope).

Tennessee River basin, in mountain streams.  
*Photogenis leuciodus* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 165, Holston River,  
Virginia.

495. *Notropis telescopus* (Cope).

Tennessee River basin; very abundant in cold mountain streams.  
*Photogenis telescopus* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 165, Holston River,  
Virginia.

495a. *Notropis telescopus arcansanus* Meek.

White River and Little Red River, Arkansas.  
*Notropis telescopus arcansanus* Meek, Bull. U. S. Fish Com., ix, 1889 (1891), 133.  
White River, Eureka Springs, Arkansas; Mammoth Spring, Arkansas.

496. *Notropis socius* (Girard).

Live Oak Creek, southwestern Texas.  
*Alburnus socius* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 193, Live Oak Creek,  
Texas.

497. *Notropis notemigonoides* Evermann.

Rio Neches near Palestine, Texas, and streams about Houston, Texas.  
*Notropis notemigonoides* Evermann, Bull. U. S. Fish Com., xi, 1891 (1892), 81,  
Neches River, Palestine, Texas, and Sims Bayou, Houston, Texas.

Orcella presc<sup>?</sup>, by Orcella. & Orcella

Episema - Paranothropis Joubert

*Notropis megalotis*, Snyder.  
no San Bernardino. Laguna Basin  
Length 2.5.  
is a hyperendemic.

**498. *Notropis stilbius* Jordan.**

Alabama River and tributaries.

*Notropis stilbius* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 343, Etowah and Oostanaula rivers, Rome, Georgia.

**499. *Notropis atherinoides* Rafinesque.**

Great Lakes region, Ohio and Mississippi valleys, and north to Winnipeg.

*Notropis atherinoides* Rafinesque, Amer. Month. Mag. and Crit. Rev. 1818, 204, Lake Erie.

**500. *Notropis arge* (Cope).**

Upper Mississippi Valley.

*Alburnellus arge* Cope, Cypr. Penn., 388, 1866, Detroit River or St. Joseph River, Michigan.

**501. *Notropis dilectus* (Girard).**

Lower Ohio to the Rio Grande.

*Alburnus dilectus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 193, Arkansas River, Fort Smith, Arkansas.

**502. *Notropis fumeus* Evermann.**

Hunter Creek, Houston, Texas.

*Notropis fumeus* Evermann, Bull. U. S. Fish Com., xi, 1891 (1892), 81, Hunter Creek, Houston, Texas.

**503. *Notropis rubrifrons* (Cope).**

New York and western Pennsylvania to southern Michigan, Kansas, and Kentucky.

*Alburnellus rubrifrons* Cope, Proc. Ac. Nat. Sci. Phila. 1865, 85, Kiskiminitas River, a tributary of Alleghany River, Pennsylvania.

**504. *Notropis photogenis* (Cope).**

Alleghany region.

*Squalius photogenis* Cope, Proc. Ac. Nat. Sci. Phila. 1864, 280, Youghioghny River, Pennsylvania.

**505. *Notropis amoenus* (Abbott).**

Clear streams east of the Alleghanies from the Raritan to the Neuse.

*Alburnellus amoenus* Abbott, Am. Nat., viii, 1874, 334, Raritan River, New Jersey.

**506. *Notropis scepticus* (Jordan & Gilbert).**

Rivers of Carolina from the Cape Fear to the Santee.

*Minnilus scepticus* Jordan & Gilbert, Synopsis, 200, 1883, Saluda River, Greenville, South Carolina.

**507. *Notropis micropteryx* (Cope).**

Headwaters of Cumberland and Tennessee rivers; also in Ozark region.

*Alburnellus micropteryx* Cope, Jour. Ac. Nat. Sci. Phila. 1868, 233, Holston River, Virginia.

**508. *Notropis metallicus* Jordan & Meek.**

Swamp streams in Georgia and Florida, from the Suwanee Basin to the Escambia.

*Notropis metallicus* Jordan & Meek, Proc. U. S. Nat. Mus. 1884, 475, Allapaha River, Nashville, Georgia.

Subgenus **LYTHRUBUS** Jordan.

*Lythrurus* Jordan, Man. Vert. E. U. S., ed. 1, 272, 1876 (*diplemius* = *lythrurus*).

**509. *Notropis bellus* (Hay).**

Tombigbee River, Mississippi.

*Minnilus bellus* Hay, Proc. U. S. Nat. Mus. 1880, 510, Tombigbee River, Artesia and Macon, Mississippi.

**510. *Notropis lirus* (Jordan).**

Alabama River basin.

*Nototropis lirus* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 342, Etowah River and other small streams about Rome, Georgia.

**511. *Notropis roseipinnis* Hay.**

Sandy streams of Gulf States, from Escambia River to the Chickasawha.  
*Notropis roseipinnis* Hay, in Jordan, Cat. Fish. N. A., 27, 1885, Chickasawha River, Enterprise, Miss.; substitute for *rubripinnis*, preoccupied.

**512. *Notropis umbratilis* (Girard).**

Arkansas River and streams of Kansas and southwestern Iowa.  
*Alburnus umbratilis* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 193, Sugar Loaf Creek, tributary of Poteau River, Arkansas.

**512a. *Notropis umbratilis atripes* (Jordan).**

Southern Illinois and Iowa.  
*Lythrurus atripes* Jordan, Bull. Ill. Lab. Nat. Hist., vol. 1, 59, 1878, streams of Union and Johnson counties, Illinois.

**512b. *Notropis umbratilis lythrurus* (Jordan).**

Ohio Valley and rivers of neighboring States.  
*Notropis lythrurus* Jordan, Proc. U. S. Nat. Mus. 1884, 476, White River, Indianapolis, Indiana.

**512c. *Notropis umbratilis cyanocephalus* (Copeland).**

Rivers of southern Wisconsin and northern Illinois and Indiana.  
*Lythrurus cyanocephalus* Copeland, Proc. Ac. Nat. Sci. Phila. 1877, 70, Racine River, Wisconsin.

**512d. *Notropis umbratilis ardens* (Cope).**

Roanoke River, Virginia.  
*Hypsilepis ardens* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 163, headwaters of Roanoke River, Montgomery County, Virginia.

**512e. *Notropis umbratilis fasciolaris* Gilbert.**

Southern bend of Tennessee River, in limestone streams.  
*Notropis umbratilis fasciolaris* Gilbert, Bull. U. S. Fish Com., ix, 1889 (1891), 148, streams about Florence, Alabama.

**512f. *Notropis umbratilis matutinus* (Cope).**

Nense and Pamlico rivers; common in sandy brooks.  
*Alburnellus matutinus* Cope, Proc. Amer. Phil. Soc. Phila. 1870, 465, Nense River, Wake County, North Carolina.

**512g. *Notropis umbratilis punctulatus* (Hay).**

Tributaries of Big Hatchee River, northern Mississippi.  
*Minnilus punctulatus* Hay, Proc. U. S. Nat. Mus. 1880, 508, Tuscumbia River, a tributary of the Big Hatchee, near Corinth, Mississippi.

**Genus 125. *ERICYMBA* Cope.**

*Ericymba* Cope, Proc. Ac. Nat. Sci. Phila. 1865, 88 (*buccata*).

**513. *Ericymba buccata* Cope.**

Michigan and western Pennsylvania to Kansas, and southward to western Florida.  
*Ericymba buccata* Cope, Proc. Ac. Nat. Sci. Phila. 1865, 88, Kiskiminitas River, a tributary of the Monongahela, western Pennsylvania.

**Genus 126. *PHENACOBIOUS* Cope.**

*Phenacobius* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 96 (*teretulus*).

**514. *Phenacobius teretulus* Cope.**

Kanawha River, West Virginia.  
*Phenacobius teretulus* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 96, Kanawha River, Eggleston Springs, West Virginia.

**515. *Phenacobius mirabilis* (Girard).**

Illinois River to Arkansas.  
*Eroglossum mirabile* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 191, Arkansas River, Fort Smith, Arkansas.

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**516. *Phenacobius scopifer* (Cope).**

Illinois and Nebraska to the Rio Grande.

*Sarcidium scopiferum* Cope, Hayden's Geol. Surv. Wyo. for 1870 (1871), 440, Missouri River near St. Joseph, Missouri.

**517. *Phenacobius uranops* Cope.**

Upper Tennessee Basin.

*Phenacobius uranops* Cope, Proc. Ac. Nat. Sci. Phila. 1867, 96, Holston River, Saltville, Virginia.

**518. *Phenacobius catostomus* Jordan.**

Alabama River basin.

*Phenacobius catostomus* Jordan, Ann. Lye. Nat. Hist. N. Y. 1876, 332, Etowah and Oostanaula rivers, Rome, Georgia.

**Genus 127. *EVARRA* Woolman.**

*Evarra* Woolman, Bull. U. S. Fish. Com., xiv, 1894, 64 (*eigenmanni*).

**519. *Evarra eigenmanni* Woolman.**

City of Mexico.

*Evarra eigenmanni* Woolman, Bull. U. S. Fish. Com., xiv, 1894, 64, City of Mexico.

**Genus 128. *TIAROGA* Girard.**

*Tiaroga* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 204 (*cobitis*).

**520. *Tiaroga cobitis* Girard.**

Rio San Pedro, a tributary of Rio Gila.

*Tiaroga cobitis* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 204, Rio San Pedro, Arizona.

**Genus 129. *RHINICHTHYS* Agassiz.**

*Rhinichthys* Agassiz, Lake Superior, 353, 1850 (*atronasus*).

**521. *Rhinichthys cataractæ* (Cuvier & Valenciennes). *Long-nosed Dace*.**

New England to Virginia and Wisconsin, its varieties ranging to the Pacific Coast.

*Gobio cataractæ* Cuvier & Valenciennes, Hist. Nat. Poiss., xvi, 315, 1842, Niagara Falls.

**521a. *Rhinichthys cataractæ dulcis* (Girard).**

Upper Missouri, Platte, Arkansas, Rio Grande, and Colorado rivers; the Columbia River; the Utah Basin, and coastwise streams of Washington and Oregon.

*Argyreus dulcis* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 185, Sweetwater River, Wyoming.

**522. *Rhinichthys simus* Garman.**

Coahuila, Mexico.

*Rhinichthys simus* Garman, Science Observer, 61, 1881, Coahuila, Mexico.

**523. *Rhinichthys atronasus* (Mitchill). *Black-nosed Dace*.**

New England to Minnesota, northern Alabama, and Virginia.

*Cyprinus atronasus* Mitchill, Trans. Lit. Phil. Soc. N. Y., i, 460, 1815, Wallkill River; brooks of New York.

**523a. *Rhinichthys atronasus croceus* (Storer).**

Tennessee Basin; abundant in clear brooks.

*Leuciscus croceus* Storer, Proc. Bost. Soc. Nat. Hist., ii, 1845, 48, Alabama, probably Florence.

**523b. *Rhinichthys atronasus lunatus* (Cope).**

Lakes and brooks of Michigan, Indiana, Wisconsin, Minnesota, and in Rainy River.

*Rhinichthys lunatus* Cope, Proc. Ac. Nat. Sci. Phila. 1864, 278, Grosse Isle, Michigan.



**523c. *Rhinichthys atronasmus meleagris* (Agassiz).**

Illinois and Iowa.

*Rhinichthys meleagris* Agassiz, Am. Jour. Sci. Arts 1854, 357, Burlington, Iowa.

**Genus 180. AGOSIA Girard.**

*Agosia* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 186 (*chrysogaster*).

**Subgenus APOCOPE Cope.**

*Apocope* Cope, Hayden's Geol. Surv. Mont. for 1871 (1872), 472 (*carringtoni*).

**524. *Agosia oscula* (Girard).**

Lower Colorado and Gila rivers.

*Argyreus osculus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 186, Babocomori Creek, a tributary of the Rio San Pedro, Arizona.

**525. *Agosia yarrowi* Jordan & Evermann.**

Streams of Colorado in the Colorado River basin.

*Agosia yarrowi* Jordan & Evermann, Bull. U. S. Fish Com., ix, 1889 (1891), 28, Tomichi Creek and Gunnison River, Gunnison, Colorado.

**526. *Agosia couesii* (Yarrow).**

Colorado River basin.

*Apocope couesii* Yarrow, Field and Forest, 1876, and Zool. Wheeler Surv., 648, 1875 (1876), Camp Apache, Arizona.

**527. *Agosia adobe* Jordan & Evermann.**

Sevier River, Utah.

*Agosia adobe* Jordan & Evermann, Bull. U. S. Fish. Com., ix, 1889 (1891) 36, Sevier River, Juab, Utah.

**528. *Agosia nevadensis* (Gilbert).**

Warm Springs in the deserts of southwestern Nevada; Ash Meadows, Indian Creek, and Vegas Creek, Nevada.

*Rhinichthys* (*Apocope*) *nevadensis* Gilbert, Death Valley Expedition, 230, pl. 6, fig. 1, 1893, Ash Meadows, Amargosa Desert, Nevada.

**529. *Agosia nubila* (Girard).**

Basin of the Columbia River from western Idaho, below Shoshone Falls of Snake River to the coast, and in coastwise streams from Washington southward into Oregon.

*Argyreus nubilus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 180, Fort Steilacoom, Puget Sound.

**529a. *Agosia nubila carringtonii* (Cope).**

Upper Snake River basin to Heart Lake in Yellowstone Park; thence extending southward in the Great Basin and the Coast Ranges.

*Apocope carringtonii* Cope, Hayden's Fifth Annual Report U. S. Geological Survey for 1871 (1872), 472, Warm Springs, Box Elder County, Utah.

**530. *Agosia velifera* (Gilbert).**

Pahranagat Valley, southwestern Nevada.

*Rhinichthys* (*Apocope*) *velifer* Gilbert, Death Valley Expedition, 229, pl. 6, fig. 2, 1893, Pahranagat Valley, Nevada.

**531. *Agosia umatilla* Gilbert & Evermann.**

Columbia River at Umatilla, Oregon, and the Payette and Salmon rivers, Idaho.

*Agosia umatilla* Gilbert & Evermann, Investigations in the Columbia River Basin, 42, pl. 9, fig. 2, 1894, Columbia River, Umatilla, Oregon.

**532. *Agosia falcata* Eigenmann & Eigenmann.**

Columbia River basin; Boise River at Caldwell, Idaho; Payette River at Payette, Idaho; Columbia River at Pasco and Umatilla, and Mill Creek at Walla Walla.

*Agosia falcata* Eigenmann & Eigenmann, Am. Nat., xxvii, February 4, 1893, 153, Boise River at Caldwell, Idaho.



*Mytilus* ~~*seamans*~~ Gilbert & Squires.  
Nunquana R. Ore.

## Subgenus AGOSIA Girard.

533. *Agosia chrysogaster* Girard.

Tributaries of the Gila River.

*Agosia chrysogaster* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 187, Rio Santa Cruz, Sonora, Mexico.Genus 131. *HYBOPSIS* Agassiz.*Hybopsis* Agassiz, Am. Jour. Sci. Arts 1854, 358 (*gracilis* = *amblops*).

## Subgenus ERIMYSTAX Jordan.

*Erimystax* Jordan, Geol. Surv. Ohio, IV, Zool., 858, 1882 (*dissimilis*).534. *Hybopsis tetranema* Gilbert.

Tributaries of Arkansas River in Kansas and Arkansas.

*Hybopsis tetranemus* Gilbert, Bull. Washburn College Lab., vol. 1, No. 7, 208, 1886, Elm and Spring creeks, Medicine Lodge, Kansas.535. *Hybopsis aestivalis* (Girard).

Arkansas River to the Rio Grande.

*Gobio aestivalis* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 189, Rio San Juan, Monterey, New Leon, Mexico.535a. *Hybopsis aestivalis marconis* Jordan & Gilbert.

Abundant in Rio San Marcos, San Marcos, Texas; also known from the Guadalupe River near San Marcos and the Rio Comal at New Braunfels, Texas.

*Hybopsis aestivalis marconis* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 22, Rio San Marcos, San Marcos, Texas.536. *Hybopsis hyostoma* (Gilbert).

Indiana to Iowa, and south to the Alabama River.

*Nocomis hyostomus* Gilbert, Proc. U. S. Nat. Mus. 1884, 203, White River, Bedford, Indiana.537. *Hybopsis gelida* (Girard).

Middle Missouri River basin from Wyoming to eastern Nebraska.

*Gobio gelidus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 188, Milk River, Montana.538. *Hybopsis meeki* Jordan & Evermann.

Missouri River at St. Joseph and elsewhere, in the river channel.

*Hybopsis meeki* Jordan & Evermann, Fishes North and Middle America, 317, 1896, Missouri River at St. Joseph, Missouri.539. *Hybopsis montana* Meek.

Types supposed to be from the upper Missouri.

*Hybopsis montanus* Meek, Proc. U. S. Nat. Mus. 1884, 526, locality unknown, but collected by Dr. F. V. Hayden.540. *Hybopsis cumingii* (Günther).

California; only the type known.

*Ceraticthys cumingii* Günther, Cat., VII, 177, 1868, California.541. *Hybopsis monaca* (Cope).

Tennessee Basin, in the river channels.

*Ceraticthys monacus* Cope, Jour. Ac. Nat. Sci. Phila. 1867, 227, Holston River, Washington County, Virginia.542. *Hybopsis dissimilis* (Kirtland). *Spotted Shiner*.

Lake Erie to the headwaters of the Tennessee and west to Arkansas and Iowa.

*Luxilus dissimilis* Kirtland, Bost. Jour. Nat. Hist., III, 1840, 341, pl. 4, fig. 2, Mahoning River, Ohio, and Lake Erie near Cleveland, Ohio.

543. *Hybopsis watanga* Jordan & Evermann.

Holston River, Virginia; Watanga River, Tennessee; White River, Arkansas; Big Harren River, Kentucky, and Tippecanoe River, Indiana.

*Hybopsis watanga* Jordan & Evermann, Proc. U. S. Nat. Mus. 1888, 355, Watanga River, Elizabethtown, Tennessee; North Fork of Holston River, Saltville, Virginia.

Subgenus *HYBOPSIS* Agassiz. *gutturata*

544. *Hybopsis labrosa* (Cope).

Basin of the Santee in North and South Carolina.

*Ceratichthys labrosus* Cope, Proc. Amer. Phil. Soc. 1870, 458, tributaries of Catawba River, McDowell and Burke counties, North Carolina.

545. *Hybopsis hypsinota* (Cope).

Santee Basin, in North and South Carolina.

*Ceratichthys hypsinotus* Cope, Proc. Amer. Phil. Soc. Phila. 1870, 458, tributaries of Catawba River, McDowell County, North Carolina.

546. *Hybopsis rubrifrons* (Jordan).

Basin of the Altamaha, Georgia.

*Nocomis rubrifrons* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 330, Ocmulgee River, Flat Shoals, Georgia.

547. *Hybopsis amblops* (Rafinesque). *Silver Chub*.

New York to Iowa, and southward to Alabama; very common in the Ohio and Tennessee valleys.

*Rutilus amblops* Rafinesque, Ichth. Ohiensis, 51, 1820, Ohio River at the Falls.

548. *Hybopsis storeriana* (Kirtland).

Lake Erie to Nebraska and eastern Wyoming, Tennessee, and Arkansas; abundant in the larger streams, especially in Iowa and Nebraska.

*Rutilus storerianus* Kirtland, Proc. Bost. Soc. Nat. Hist., 1, 1842, 71, Lake Erie.

Subgenus *YURIRIA* Jordan & Evermann.

*Yuriria* Jordan & Evermann, Fishes North and Middle America, 321, 1896 (*altus*).

549. *Hybopsis alta* (Jordan). *Pesca Blanca*.

Lakes and streams of Guanajuato, tributary to Rio Lerma, Mexico, in Pacific drainage.

*Hudsonius altus* Jordan, Proc. U. S. Nat. Mus. 1879, 301, Lake Tupaturo, Guanajuato, Mexico.

Subgenus *NOCOMIS* Girard.

*Nocomis* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 190 (*nebrascensis* — *kentuckiensis*).

550. *Hybopsis kentuckiensis* (Rafinesque). *Horny Head*; *River Chub*; *Jerker*; *Indian Chub*.

Pennsylvania to Wyoming and Alabama, on both sides of the Alleghanies; everywhere abundant in the larger streams, seldom ascending small brooks.

*Lurilus kentuckiensis* Rafinesque, Ichth. Ohiensis, 48, 1820, Ohio River.

Genus 132. *COUESIUS* Jordan.

*Couesius* Jordan, Bull. Hayden's Geol. Surv. Terr., IV, 785, 1878 (*milneri*).

551. *Couesius squamilentus* (Cope).

Henry Fork of Green River in southwestern Wyoming.

*Ceratichthys squamilentus* Cope, Hayden's Geol. Surv. Wyo. for 1870 (1872), 442, Henry Fork of Green River, Wyoming, Colorado Basin.

552. *Couesius plumbeus* (Agassiz).

Streams and lakes, from Lake Superior east to the Adirondack region and New Brunswick.

*Gobio plumbeus* Agassiz, Lake Superior, 366, 1856, Lake Superior.



557 is *Coregonus angustatus*  
Nal.

**553. *Couesius dissimilis* (Girard).**

Upper Missouri and Black Hills region.

*Leucosomus dissimilis* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 189, Milk River and Little Muddy River, Montana.

**554. *Couesius greeni* Jordan.**

Stuart Lake, headwaters of Fraser River in British Columbia, and Lake Pend Oreille, Idaho.

*Couesius greeni* Jordan, Proc. U. S. Nat. Mus. 1893, 313, Stuart Lake, British Columbia.

**555. *Couesius adustus* Woolman.**

Rio de los Conchos, Chihuahua, Mexico.

*Couesius adustus* Woolman, Bull. U. S. Fish Com., XIV, 1894, 57, Rio de los Conchos, Chihuahua, Mexico.

**Genus 133. PLATYGOBIO Gill.**

*Platygobio* Gill, Trans. Amer. Phil. Soc. Phila., v, 1863, 178 (*communis* = *gracilis*).

**556. *Platygobio physignathus* (Cope).**

Upper waters of Arkansas River; very abundant in the channels, the most common fish at Pueblo, Colorado.

*Ceraticthys physignathus* Cope, Wheeler Surv., Zool., v, 651, 1875 (1876), Arkansas River, Pueblo, Colorado.

**557. *Platygobio gracilis* (Richardson). Flat-headed Chub.**

East slope of the Rocky Mountains, from Missouri and Yellowstone rivers to the Saskatchewan.

*Cyprinus* (*Leuciscus*) *gracilis* Richardson, Fauna Bor.-Amer., Fishes, 120, pl. 78, 1836, Saskatchewan River at Carlton-house, Canada.

**558. *Platygobio pallidus* Forbes.**

One specimen from Ohio River at Cairo.

*Platygobio pallidus* Forbes, in Jordan & Gilbert, Synopsis, 220, 1883, Ohio River at Cairo, Illinois.

**Genus 134. EXOGLOSSUM Rafinesque.**

*Exoglossum* Rafinesque, Jour. Ac. Nat. Sci. Phila., i, 1818, 420 (*lesueurianum*).

**559. *Exoglossum maxilllingua* (LeSueur). Cut-lips; Nigger Chub; Nigger Dick.**

Lake Ontario, St. Lawrence River, Lake Champlain, Hudson River, and Cayuga Lake, and southward to Virginia; abundant in the basins of the Susquehanna, Hudson, Potomac, James, Roanoke, and Kanawha.

*Cyprinus maxilllingua* LeSueur, Jour. Ac. Nat. Sci. Phila., i, 1817, 85, Pipe Creek, Maryland.

**Genus 135. LEPIDOMEDA Cope.**

*Lepidomeda* Cope, Proc. Amer. Phil. Soc. Phila. 1874, 131 (*vittata*).

**560. *Lepidomeda vittata* Cope.**

Known only from the Colorado Chiquito River, Arizona, and from Pahr-nagat Valley, Nevada.

*Lepidomeda vittata* Cope, Proc. Amer. Phil. Soc. Phila. 1874, 131, Rio Colorado Chiquito, Arizona.

**561. *Lepidomeda jarrovi* Cope.**

Colorado Chiquito River, Arizona; also in southern Nevada, in springs in the desert.

*Lepidomeda jarrovi* Cope, Proc. Amer. Phil. Soc. Phila. 1874, 132, Rio Colorado Chiquito, Arizona.

**Genus 136. MEDA Girard.**

*Meda* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 191 (*fulgida*).

**562. *Meda fulgida* Girard.**

Rio Gila, Arizona.

*Meda fulgida* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 191, Rio San Pedro, Arizona.



Genus 137. **PLAGOPTERUS** Cope.*Plagopterus* Cope, Proc. Amer. Phil. Soc. Phila. 1874, 130 (*argentissimus*).563. *Plagopterus argentissimus* Cope.

Colorado Basin in western Colorado (Cope); Fort Yuma (Gilbert).

*Plagopterus argentissimus* Cope, Proc. Amer. Phil. Soc. Phila. 1874, 130, San Luis Valley, Colorado.Suborder **HETEROGNATHI**.Family **XXXVIII. ERYTHRINIDÆ**.Genus 138. **MACRODON** Müller.*Macrodon* Müller, Archiv Anat., 1842, 308 (*trahira* = *malabaricus*).564. *Macrodon microlepis* Günther.

Panama to Ecuador, chiefly west of the Andes; known from Rio Chagres and from Ecuador.

*Macrodon microlepis* Günther, Cat., v, 282, 1864, western Ecuador; Chagres River, Guatemala.Family **XXXIX. CHARACINIDÆ. The Characina**.Genus 139. **CURIMATA** (Cuvier) Cloquet.*Curimata* Cuvier, in Cloquet, Dict. Hist. Nat., xii, 240, 1818 (*odontula*).565. *Curimata magdalenæ* Steindachner. *Sardina Blanca*.

Rio Magdalena and Rio Mamoni, Colombia.

*Curimatus magdalenæ* Steindachner, Fisch-Fauna des Magdalenen-Stromes, 34, 1878, Rio Magdalena, Colombia.Genus 140. **PIABUCINA** Cuvier & Valenciennes.*Piabucina* Cuvier & Valenciennes, Hist. Nat. Poiss., xxii, 161, 1849 (*erythrinoides*).566. *Piabucina panamensis* Gill.

Rio Frijoli, Atlantic Slope of Isthmus of Panama.

*Piabucina panamensis* Gill, Proc. Ac. Nat. Sci. Phila. 1876, 336, Rio Frijoli, Isthmus of Panama.Genus 141. **TETRAGONOPTERUS** Cuvier.*Tetragonopterus* (Artedi) Cuvier, Règne An., ii, 166, 1817 (*argenteus*).Subgenus **ASTYANAX** Baird & Girard.*Astyanax* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 26 (*argenteatus*).567. *Tetragonopterus æneus* Günther.

Oaxaca, Mexico, and Rio Chagres, south to Brazil.

*Tetragonopterus æneus* Günther, Proc. Zool. Soc. Lond. 1860, 319, Oaxaca, Mexico.568. *Tetragonopterus rutilus* Jenyns.

Mexico to Ecuador and Rio de la Plata; recorded as common in Central America.

*Tetragonopterus rutilus* Jenyns, Zool. Beagle, Fishes, 125, 1842, Rio Parana, South America.569. *Tetragonopterus panamensis* Günther.

Streams about Panama and Lake Yzabal.

*Tetragonopterus panamensis* Günther, Cat., v, 324, 1864, Panama; Lake Yzabal.570. *Tetragonopterus microphthalmus* Günther.

Guatemala (Lake Amatitlan) to Peru.

*Tetragonopterus microphthalmus* Günther, Cat., v, 324, 1864, Lake Amatitlan; Rio Rimao, Peru.



*Brycon guatemalensis* Regan

*T. macrophthalmus* } S. Mex.  
*T. angustifrons*

several new gar pipe species.

*Anorhynchichthys* for  
*Anorhynchus* procc.

*Cichlasoma laurae*

**571. *Tetragonopterus ørstedii* Kroyer.**

Rio San Juan, Nicaragua.

*Tetragonopterus ørstedii* Kroyer, in Lütken, Ict. Bidrag, III, 229, 1874, Rio San Juan, Nicaragua.**572. *Tetragonopterus petenensis* Günther.**

Lake Peten to western Ecuador; southeast to Argentine Republic.

*Tetragonopterus petenensis* Günther, Cat., v, 326, 1864, Lake Peten.**573. *Tetragonopterus scabripinnis* Jenyns.**

Jamapa, Mexico, to Rio Janeiro.

*Tetragonopterus scabripinnis* Jenyns, Zool. Beagle, Fishes, 125, 1842, Rio Janeiro, Brazil.**574. *Tetragonopterus humilis* Günther.**

Lake Amatitlan, Guatemala.

*Tetragonopterus humilis* Günther, Cat., v, 327, 1864, Lake Amatitlan, Guatemala.**575. *Tetragonopterus brevimanus* Günther.**

Guatemala.

*Tetragonopterus brevimanus* Günther, Cat., v, 325, 1864, Yzabal; Rio San Geronimo, Guatemala.**576. *Tetragonopterus mexicanus* Filippi.**

Lakes about the City of Mexico.

*Tetragonopterus mexicanus* Filippi, in Guerin's Rev. Mag. Zool., 166, 1853, City of Mexico.**577. *Tetragonopterus argentatus* (Baird & Girard).**

Southern Texas and Mexico (Rio Nueces, Rio Leona, and Rio Grande); also recorded, probably by error, from Arkansas.

*Astyanax argentatus* Baird & Girard, Proc. Ac. Nat. Sci. Phila., VII, 1854, 27, Rio Nueces, Rio Leona, Zoquito, Comanche Spring, Elm Creek, Turkey Creek, San Felipe, Devil River, Brownsville, and Rio Sabinal.**Genus 142. BRYCON Müller & Troschel.***Brycon* Müller & Troschel, Horæ Ichthyologiæ, I, 15, 1845 (*falcatus*).**Subgenus CHALCINOPSIS Kner.***Chalcinopsis* Kner, Sitzber. Akad. Wiss. München, 226, 1863 (*striatulus*).**578. *Brycon dentex* Günther.**

Yucatan to Ecuador.

*Brycon dentex* Günther, Proc. Zool. Soc. Lond. 1860, 240, Esmeraldas, Ecuador.**579. *Brycon striatulus* (Kner).**

Rio Chagres and streams about Panama.

*Chalcinopsis striatulus* Kner, Sitzber. Akad. Wiss. München, 223, 1863, Panama.**Genus 143. GASTEROPELECUS (Gronow) Pallas.***Gasteropelecus* Gronow, Mus. Ichthyol., II, 7, 1763 (nonbinomial).**580. *Gasteropelecus maculatus* Steindachner. *Pêche Pêche*.**

Rio Mamoni, near Panama.

*Gasteropelecus maculatus* Steindachner, Fluss-Fische Südamerikas, 168, 1879, Rio Mamoni, at Chepo, Panama.**Genus 144. ROBOIDES Günther.***Roboides* Günther, Cat., v, 347, 1864 (*microlepis*).**581. *Roboides guatemalensis* (Günther).**

Rio Chagres and streams of Guatemala.

*Anacyrus guatemalensis* Günther, Cat., v, 347, 1864, Rio Chagres; Huamuchal.

Genus 145. **BRAMOCHARAX** Gill.

*Bramocharax* Gill, Proc. Ac. Nat. Sci. Phila. 1877, 189 (*bransfordi*).

582. **Bramocharax bransfordi** Gill.

Lake Nicaragua.

*Bramocharax bransfordi* Gill, Proc. Ac. Nat. Sci. Phila. 1877, 190, Lake Nicaragua.

Genus 146. **LUCIOCHARAX** Steindachner.

*Luciocharax* Steindachner, Fisch-Fauna des Magdalenen-Stromes, 67, 1878 (*insculptus*).

583. **Luciocharax insculptus** Steindachner.

Rio Magdalena, and Rio Mamoni near Panama.

*Luciocharax insculptus* Steindachner, Fisch-Fauna des Magdalenen-Stromes, 67, 1878, Rio Magdalena, and Rio Mamoni near Panama.

Suborder **GYMNONOTI**.

Family **XL. GYMNOTIDÆ**.

Genus 147. **GITON** Kaup.

*Giton* Kaup, in Duméril, Analyt. Ichth., 201, 1856 (*fasciatus*).

584. **Giton fasciatus** (Pallas). *Carapo*.

Guatemala to Rio de la Plata; recorded from Rio Matagua and Grenada.

*Gymnotus fasciatus* Pallas, Spicilegia Zool., vii, 35, 1769, "fresh waters of America."

Genus 148. **EIGENMANNIA** Jordan & Evermann.

*Eigenmannia* Jordan & Evermann, Fishes North and Middle America, 341, 1896 (*humboldti*).

585. **Eigenmannia humboldti** (Steindachner). *Macana*.

Rio Magdalena, and Rio Mamoni near Panama.

*Sternopygus humboldti* Steindachner, Fisch-Fauna des Magdalenen-Stromes, 55, 1878, Rio Magdalena, Venezuela.

Order **O. SYMBRANCHIA**

Family **XLI. SYMBRANCHIDÆ**. The Symbranchoid Eels.

Genus 149. **SYMBRANCHUS** Bloch.

*Symbranchus* Bloch, Ichthyologia, ix, 87, 1795 (*marmoratus*).

586. **Symbranchus marmoratus** Bloch.

Tropical America, in streams from the Amazon northward to southern Mexico and St. Lucia.

*Symbranchus marmoratus* Bloch, Ichthyologia, ix, 87, pl. 418, 1795, Tropical America.

Order **P. CARENCHELYI** The Long-necked Eels.

Family **XLII. DERICHTHYIDÆ**.

Genus 150. **DERICHTHYS** Gill.

*Derichthys* Gill, Am. Nat., xviii, 1884, 433 (*serpentinus*).

587. **Derichthys serpentinus** Gill.

Gulf Stream.

*Derichthys serpentinus* Gill, Am. Nat., xviii, 1884, 433, Gulf Stream at Albatross Station 2094, in 1,022 fathoms.





## Order Q. APODES. The Eels.

## Suborder ENCHELYCEPHALI. The Eels.

## Family XLIII. ANGUILLIDÆ. The True Eels.

## Genus 151. ANGUILLA Shaw. Eels.

*Anguilla* Shaw, General Zoology, iv, 15, 1804 (*anguilla*).

588. *Anguilla chrysypa* Rafinesque. American Eel; Fresh-water Eel.

Atlantic Coast of the United States; very abundant from Maine to Mexico, ascending all rivers south of Canada and east of the Rocky Mountains and resident throughout the Mississippi Valley; common in the West Indies.

*Anguilla chrysypa* Rafinesque, Amer. Month. Mag. and Crit. Rev. 1817, 120, Lake George, Hudson River, and Lake Champlain.

## Family XLIV. SIMENCHELYIDÆ. The Snub-nosed Eels.

## Genus 152. SIMENCHELYS Gill.

*Simenchelys* Gill, in Goode & Bean, Bull. Essex Inst., 27, 1879 (*parasiticus*).

589. *Simenchelys parasiticus* Gill.

Offshore banks, in deep water, south of Newfoundland; also recorded from the Azores.

*Simenchelys parasiticus* Gill, in Goode & Bean, Bull. Essex Inst., 27, 1879, Newfoundland Banks.

## Family XLV. ILYOPHIDÆ. The Ooze Eels.

## Genus 153. ILYOPHIS Gilbert.

*Ilyophis* Gilbert, Proc. U. S. Nat. Mus. 1891, 351 (*brunneus*).

590. *Ilyophis brunneus* Gilbert.

One specimen from Chatham Island, Galapagos Archipelago, in 634 fathoms. *Ilyophis brunneus* Gilbert, Proc. U. S. Nat. Mus. 1891, 352, Chatham Island; Galapagos Archipelago, at Albatross Station 2808, in 634 fathoms.

## Family XLVI. SYNAPHOBRANCHIDÆ.

## Genus 154. SYNAPHOBRANCHUS Johnson.

*Synaphobranchus* Johnson, Proc. Zool. Soc. Lond. 1862, 169 (*kaupii*).

591. *Synaphobranchus pinnatus* (Gronow).

North Atlantic and western Pacific; common about the Madeiras, Canaries, etc., and also about the banks of Newfoundland.

*Muraena pinnata* Gronow, Cat. Fish. Brit. Mus., 19, 1854, locality unknown.

## Genus 155. HISTIOBRANCHUS Gill.

*Histiobranchus* Gill, Proc. U. S. Nat. Mus. 1883, 255 (*infernalis*).

592. *Histiobranchus bathybius* (Günther).

Northern and western Pacific in deep water; Bering Strait; off Japan and off Cape of Good Hope; one specimen obtained by Dr. Gilbert in Bering Sea in 1890.

*Synaphobranchus bathybius* Günther, Ann. and Mag. Nat. Hist., xx, 1877, 445, and in Voy. Challenger, 254, pl. 62, fig. b, 1887, off Yedo; North Pacific; also between Cape of Good Hope and Kerguelen Island.

593. *Histiobranchus infernalis* Gill.

Gulf Stream.

*Histiobranchus infernalis* Gill, Proc. U. S. Nat. Mus. 1883, 255, Gulf Stream, at Albatross Station 2037, 38° 30' N., 69° W., in 1,731 fathoms.



## Family XLVII. LEPTOCEPHALIDÆ. The Conger Eels.

Genus 156. LEPTOCEPHALUS (Gronow) Scopoli. *Conger Eels*.*Leptocephalus* (Gronow) Scopoli, Int. Hist. Nat., 453, 1777 (*morrisi*).594. *Leptocephalus conger* (Linnæus). *Conger Eel*.

Atlantic Ocean; generally common on both coasts, from Cape Cod to Brazil; also on coasts of Asia and Africa.

*Muraena conger* Linnæus, Syst. Nat., ed. x, 245, 1758, Mediterranean Sea.595. *Leptocephalus caudilimbatus* (Poey).

Tropical parts of Atlantic; Pensacola to Cuba and Madeira.

*Echelus caudilimbatus* Poey, Repertorio, II, 249, 1867, Cuba.

Genus 157. CONGERMURÆNA Kaup.

*Congermuræna* Kaup, Apodes, 108, 1856 (*balearica*).596. *Congermuræna balearica* (De la Roche).

Tropical parts of the Atlantic and eastern Pacific; known from the Mediterranean, Cuba, Brazil, St. Helena, Cape San Lucas, and the Galapagos.

*Muræna balearica* De la Roche, Ann. Mus., XIII, 1809, 327, fig. 3, Balearic Islands.597. *Congermuræna macrura* (Gilbert).

Gulf of California.

*Ophisoma macrurum* Gilbert, Proc. U. S. Nat. Mus. 1891, 351, Gulf of California, at Albatross Station 3015.598. *Congermuræna prorigera* (Gilbert).

Panama to Ecuador.

*Ophisoma prorigerum* Gilbert, Proc. U. S. Nat. Mus. 1891, 350, coast of Ecuador, at Albatross Station 2792, in 401 fathoms; also at station 2799, near Panama.599. *Congermuræna nitens* (Jordan & Bollman).

One specimen dredged at Albatross Station 2801, off Panama, 8° 47' N., 79° 29' 30" W., in 14 fathoms.

*Ophisoma nitens* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 153, Panama.600. *Congermuræna flava* Goode & Bean.

Albatross Stations 2121 and 2122, in 31 to 34 fathoms; Station 2402, in 111 fathoms; also Blake Station 264, in 84 fathoms.

*Congermuræna flava* Goode & Bean, Oceanic Ichthyology, 138, fig. 159, 1896, Gulf Stream.

Genus 158. UROCONGER Kaup.

*Uroconger* Kaup, Apodes, 110, 1856 (*lepturus*).601. *Uroconger vicinus* Vaillant.

Deep waters off the coast of northern Africa; a young individual at Albatross Station 2161, in 146 fathoms.

*Uroconger vicinus* Vaillant, Expéd. Travailleur et Talisman, 86, pl. 6, fig. 1, 1888, Banc d'Arguin, off Soudan, off Cape Verde Islands.

## Family XLVIII. MURÆNESOCIDÆ.

Genus 159. MURÆNESOX McClelland.

*Murænesox* McClelland, Calcutta Jour. Nat. Hist., IV, 1843, 408 (*tricuspidata*).

Subgenus MURÆNESOX McClelland.

602. *Murænesox coniceps* Jordan & Gilbert.

Cape San Lucas to the coast of Colombia; generally common.

*Murænesox coniceps* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 348, Mazatlan, Mexico.603. *Murænesox savanna* (Cuvier).

Cuba to Rio Janeiro, not common; occasional in the Mediterranean Sea.

*Muræna savanna* Cuvier, Règne Animal, ed. 2, vol. 2, 350, 1829, Martinique.





**Genus 160. XENOMYSTAX Gilbert.**

*Xenomystax* Gilbert, Proc. U. S. Nat. Mus. 1891, 348 (*atrarius*).

**604. *Xenomystax atrarius* Gilbert.**

Coast of Ecuador.

*Xenomystax atrarius* Gilbert, Proc. U. S. Nat. Mus. 1891, 348, 1° S., 81° W., at Albatross Station 2792, in 401 fathoms.

**Genus 161. HOPLUNNIS Kaup.**

*Hoplunnis* Kaup, Aale Hamb. Mus., 19, 1859 (*schmidtii*).

**605. *Hoplunnis schmidtii* Kaup.**

Caribbean Sea at Puerto Cabello, near Aspinwall.

*Hoplunnis schmidtii* Kaup, Aale Hamb. Mus., 19, pl. 2, fig. 4, 1859, Puerto Cabello, near Aspinwall.

**606. *Hoplunnis diomedianus* Goode & Bean.**

A single individual was obtained by the Albatross at Station 2402, Gulf of Mexico, 28° 36' N., 86° 50' W., 111 fathoms.

*Hoplunnis diomedianus* Goode & Bean, Oceanic Ichthyology, 146, 1896, Gulf of Mexico.

**Genus 162. NEOCONGER Girard.**

*Neoconger* Girard, U. S. Mex. Bound. Surv., Ichth., 77, 1859 (*mucronatus*).

**607. *Neoconger mucronatus* Girard.**

Coast of Texas.

*Neoconger mucronatus* Girard, U. S. Mex. Bound. Surv., Ichth., 77, 1859, St. Joseph Island, Texas.

**608. *Neoconger vermiformis* Gilbert.**

Lower California and Panama.

*Neoconger vermiformis* Gilbert, Proc. U. S. Nat. Mus. 1890, 57, off Lower California, at Albatross Station 3035, in about 30 fathoms.

**Genus 163. LEPTOCONGER Poey.**

*Leptoconger* Poey, Anales Hist. Nat. Esp., 250, 1880 (*perlongus*).

**609. *Leptoconger perlongus* (Poey).**

Matanzas, Cuba.

*Neoconger perlongus* Poey, Ann. Lyc. Nat. Hist. N. Y., 1874, 67, pl. 9, fig. 3-4, Matanzas, Cuba.

**Genus 164. STILBISCUS Jordan & Bollman.**

*Stilbiscus* Jordan & Bollman, Proc. U. S. Nat. Mus. 1888, 549 (*edwardsi*).

**610. *Stilbiscus edwardsi* Jordan & Bollman.**

Green Turtle Cay, one of the Bahamas.

*Stilbiscus edwardsi* Jordan & Bollman, Proc. U. S. Nat. Mus. 1888, 549, Green Turtle Cay, Bahamas.

**Genus 165. GORDIICHTHYS Jordan & Davis.**

*Gordiichthys* Jordan & Davis, Prelim. Review Apodal Fishes, in Rept. U. S. Fish Com. 1888 (1892), 644 (*irretitus*).

**611. *Gordiichthys irretitus* Jordan & Davis.**

Snapper Banks off west Florida, in rather deep water.

*Gordiichthys irretitus* Jordan & Davis, Apodal Fishes, 644, 1892, off Pensacola, Florida.

Family **XLIX. NETTASTOMIDÆ. The Sorcerers.**

Genus 166. **CHLOPSIS** Rafinesque.

*Chlopsis* Rafinesque, Indice Ittiol. Sicil., 58, 1810 (*bicolor*).

**612. Chlopsis equatorialis** Gilbert.

Coast of Ecuador.

*Chlopsis equatorialis* Gilbert, Proc. U. S. Nat. Mus. 1891, 347, off coast of Ecuador, 1° S., 81° W., at Albatross Station 2792, in 401 fathoms.

Genus 167. **VENEFICA** Jordan & Davis.

*Venefica* Jordan & Davis, Apodal Fishes, 651, 1892 (*procera*).

**613. Venefica procera** (Goode & Bean).

Gulf Stream; also taken off San Pedro, California.

*Nettastoma procerum* Goode & Bean, Bull. Mus. Comp. Zool., x, 224, 1883, Gulf Stream, at Albatross Station 325, 33° 35' 20" N., 76° W., in 647 fathoms; also at Station 327.

Family **L. NEMICHTHYIDÆ. The Snipe Eels.**

Genus 168. **SERRIVOMER** Gill & Ryder.

*Serrivomer* Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 260 (*beanii*).

**614. Serrivomer beanii** Gill & Ryder.

Gulf Stream; also taken in the Gulf of California.

*Serrivomer beanii* Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 261, Gulf Stream, latitude 41° 40' 30", longitude 65° 28' 30", in 855 fathoms.

Genus 169. **SPINIVOMER** Gill & Ryder.

*Spinivomer* Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 261 (*goodiei*).

**615. Spinivomer goodiei** Gill & Ryder.

Gulf Stream.

*Spinivomer goodiei* Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 261, Gulf Stream, at latitude 38° 19' 26", longitude 68° 20' 20", in 2,361 fathoms.

Genus 170. **AVOCETTINA** Jordan & Davis.

*Avocettina* Jordan & Davis, Apodal Fishes, 655, 1892 (*infans*).

**616. Avocettina infans** (Günther).

Known from West Indies, mid-Atlantic, off Pernambuco.

*Nemichthys infans* Günther, Ann. and Mag. Nat. Hist. 1878, 24, and in Voy. Challenger, xxii, 264, 1887, mid-Atlantic, in 2,500 fathoms.

**617. Avocettina gilli** (Bean).

Coast of southeastern Alaska in deep water.

*Labichthys gilli* Bean, Proc. U. S. Nat. Mus. 1890, 45, east of Prince of Wales Island, Alaska.

Genus 171. **LABICHTHYS** Gill & Ryder.

*Labichthys* Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 261 (*carinatus*).

**618. Labichthys carinatus** Gill & Ryder.

Gulf Stream.

*Labichthys carinatus* Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 253, 255, 261, Gulf Stream, 41° 13' N., 65° 33' W.

**619. Labichthys elongatus** Gill & Ryder.

Gulf Stream.

*Labichthys elongatus* Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 262, Gulf Stream, at Albatross Station 2100, 39° 22' N., 68° 34' W.

An *Arceuthia* ? see fig.



**Genus 172. NEMICHTHYS Richardson.***Nemichthys* Richardson, Voy. Samarang, 16, 1848 (*scolopaceus*).**620. Nemichthys scolopaceus Richardson. Snipe Eel.**

Atlantic Ocean, in deep water; many specimens taken off the New England coast and off the Grand Banks; common about Madeira.

*Nemichthys scolopacea* Richardson, Voy. Samarang, 25, 1848, South Atlantic.**621. Nemichthys avocetta Jordan & Gilbert.**

Puget Sound near Seattle; only the type known.

*Nemichthys avocetta* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 409, harbor of Port Gamble, Puget Sound, near Seattle.**Family LI. MYRIDÆ. The Worm Eels.****Genus 173. AHLIA Jordan & Davis.***Ahlia* Jordan & Davis, Apodal Fishes, 639, 1892 (*egmontis*).**622. Ahlia egmontis (Jordan).**

Egmont Key, Florida.

*Myrophis egmontis* Jordan, Proc. Ac. Nat. Sci. Phila. 1884, 44, Egmont Key.**Genus 174. MYROPHIS Lütken.***Myrophis* Lütken, Vidensk. Meddel. Naturg. Foren. Kjöbenhavn, 1, 9, 1851 (*punctatus*).**623. Myrophis punctatus Lütken.**

West Indies; coast of Texas to Surinam; common along our Gulf Coast.

*Myrophis punctatus* Lütken, Vidensk. Meddel. Naturg. Foren. Kjöbenhavn, 1, 9, 1851, West Indies.**624. Myrophis vafer Jordan & Gilbert.**

Pacific Coast of Tropical America, from Guaymas to Panama.

*Myrophis vafer* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 645, Panama.**Genus 175. CHILORHINUS Lütken.***Chilorhinus* Lütken, Vidensk. Meddel. Naturg. Foren. Kjöbenhavn, 1, 9, 1851 (*suensonii*).**625. Chilorhinus suensonii Lütken.**

St. Croix, West Indies.

*Chilorhinus suensonii* Lütken, Vidensk. Meddel. Naturg. Foren. Kjöbenhavn, 1, 9, 1851, St. Croix, West Indies.**Family LII. OPHICHTHYIDÆ. The Snake Eels.****Genus 176. SPHAGEBRANCHUS Bloch.***Sphagebranchus* Bloch, Ichthyologia, ix, 88, pl. 419, 1795 (*rostratus*).**626. Sphagebranchus anguiformis (Peters).**

Open Atlantic, near the West Indies.

*Ophichthys (Sphagebranchus) anguiformis* Peters, Berlin. Monatsber. 1876, 849, Atlantic Ocean, 15° 40' N., 23° 5' W.**627. Sphagebranchus selachops (Jordan & Gilbert).**

Rocks about Cape San Lucas.

*Apterichthys selachops* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 356, Cape San Lucas.**Genus 177. VERMA Jordan & Evermann.***Verma* Jordan & Evermann, Fishes N. and M. Amer., 374, 1896 (*kendalli*).**628. Verma kendalli (Gilbert).**

Coast of Florida, in rather deep water.

*Sphagebranchus kendalli* Gilbert, Bull. U. S. Fish Com., ix, 1889 (1891), 310, off west coast of Florida, 25° 34' N., 82° 50' W., in 25 fathoms.F. R. 95—1<sup>st</sup>



**Genus 178. LETHARCHUS Goode & Bean.**

*Letharchus* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 437 (*velifer*).

**629. Letharchus velifer Goode & Bean.**

Coast of Florida, in rather deep water; known only from the Snapper Banks off Pensacola and Tampa.

*Letharchus velifer* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 437, West Florida.

**Genus 179. MYRICHTHYS Girard.**

*Myrichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 58 (*tigrinus*).

**630. Myrichthys tigrinus Girard.**

Pacific Coast of Mexico; rather common about Mazatlan, and occasionally ranging northward.

*Myrichthys tigrinus* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 58, Adair Bay, Oregon.

**631. Myrichthys oculatus (Kaup).**

Tropical Atlantic; Cuba to Surinam, and Cape Verde Islands.

*Pisoodonophis oculatus* Kaup, Apodes, 22, 1856, Curaçoa.

**632. Myrichthys acuminatus (Gronow).**

West Indies, occasionally northward to Florida Keys.

*Muraena acuminata* Gronow, Fishes Brit. Mus., 21, 1854, Insula Div. Eustachii.

**Genus 180. PISOODONOPHIS Kaup.**

*Pisoodonophis* Kaup, Apodal Fishes, 17, 1856 (*boro*).

**633. Pisoodonophis cruentifer Goode & Bean.**

Two specimens at Station 1035 of U. S. Fish Commission steamer *Fish Hawk*, 39° 57' N., 69° 28' W., in 120 fathoms; four others at nearly same region in 245 fathoms.

*Pisoodonophis cruentifer* Goode & Bean, Oceanic Ichthyology, 147, fig. 166, 1896, Gulf Stream.

**Genus 181. CALLECHELYS Kaup.**

*Callechelys* Kaup, Apodes, 28, 1856 (*guichenoti*).

**634. Callechelys muræna Jordan & Evermann.**

Snapper Banks off Pensacola.

*Callechelys muræna* Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 466, Snapper Banks.

**Genus 182. BASCANICHTHYS Jordan & Davis.**

*Bascanichthys* Jordan & Davis, Apodal Fishes, 621, 1892 (*bascanium*).

**635. Bascanichthys scuticaris (Goode & Bean).**

West coast of Florida.

*Sphagebranchus scuticaris* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 343, Cedar Key, Florida.

**636. Bascanichthys peninsulæ (Gilbert).**

La Paz Bay, Gulf of California.

*Callechelys peninsulæ* Gilbert, Proc. U. S. Nat. Mus. 1891, 548, La Paz Bay.

**637. Bascanichthys bascanium (Jordan).**

Egmont Key, Florida.

*Cucula bascanium* Jordan, Proc. Ac. Nat. Sci. Phila. 1884, 43, Egmont Key, Florida.

Myrsine *Myrsine*. Known from type  
only, fig & descr. from it.  
M. *xylaria* f & l. 1841. 1841. 1841.  
M. *Myrsine* Revillagigedo

*Pseudonaphis*

Enrico  
Panama,



**Genus 183. QUASSIREMUS Jordan & Davis.***Quassiremus* Jordan & Davis, Apodal Fishes, 622, 1892 (*evionthas*).**638. *Quassiremus nothochir* (Gilbert).**

San Josef Island, Gulf of California.

*Ophichthys nothochir* Gilbert, Proc. U. S. Nat. Mus. 1890, 58, San Josef Island, Gulf of California.**639. *Quassiremus evionthas* (Jordan & Bollman).**

Hood Island, Galapagos Archipelago.

*Ophichthys evionthas* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 154, Hood Island, Galapagos Archipelago.**Genus 184. OPHICHTHUS Thunberg & Ahl.***Ophichthys* Thunberg & Ahl, De Muraena et Ophichtho, 1789 (*ophis*).**Subgenus CRYPTOPTERUS Kaup.***Cryptopterus* Kaup, Aale Hamburg, 1859 (*puncticeps*).**640. *Ophichthys puncticeps* (Kaup).**

Caribbean Sea at Puerto Cabello, near Aspinwall.

*Cryptopterus puncticeps* Kaup, Aale Hamb. Mus., II, pl. 1, fig. 2, 1859, Puerto Cabello, Caribbean Sea.**Subgenus OPHICHTHUS Thunberg & Ahl.****641. *Ophichthys havannensis* (Bloch & Schneider).**

West Indies; apparently not common.

*Muraena havannensis* Bloch & Schneider, Syst. Ichth., 491, 1801, Havana; after Parra.**642. *Ophichthys retropinnis* (Eigenmann).**

Snapper Banks, off Pensacola, Florida.

*Ophichthys retropinnis* Eigenmann, Proc. U. S. Nat. Mus. 1887, 116, Snapper Banks, off Pensacola.**Subgenus MURÆNOPSIS Kaup.***Murænopsis* Kaup, Apodes, 11, 1856 (*ocellatus*).**643. *Ophichthys guttifer* (Bean & Dresel).**

Snapper Banks, off Pensacola, Florida.

*Ophichthys guttifer* Bean & Dresel, Proc. Biol. Soc. Wash., II, 1884, 100, Snapper Banks, off Pensacola, Florida.**644. *Ophichthys ocellatus* (LeSueur).**

West Indies, south to Brazil and north to Pensacola.

*Murænophis ocellatus* LeSueur, Jour. Ac. Nat. Sci. Phila., v, 1825, 108, pl. 4, fig. 3, South America.**645. *Ophichthys triserialis* (Kaup).**

Pacific Coast of Tropical America, rather common, from Lower California to the Galapagos.

*Murænopsis triserialis* Kaup, Apodes, 12, 1856, Pacific.**Subgenus SCYTALOPHIS Kaup.***Scytalophis* Kaup, Apodes, 13, 1856 (*magniocularis*).**646. *Ophichthys gomesii* (Castelnau). *Sea Serpent; Sea Eel; Whipsnake Eel.***

South Carolina to Rio Janeiro; generally common, especially about the Florida Keys and Cuba.

*Ophisurus gomesii* Castelnau, Anim. Am. Sud, 84, pl. 44, fig. 2, 1855, Rio Janeiro.**647. *Ophichthys zophochir* (Jordan & Gilbert).**

Pacific Coast of Mexico, Guaymas to Acapulco.

*Ophichthys zophochir* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 347, Mazatlan, Mexico.

648. *Ophichthus magniocularis* (Kaup).

West Indies to Brazil; Aspinwall.

*Soytalophis magniocularis* Kaup, Apodes, 13, fig. 7, 1856, St. Croix and Brazil.

649. *Ophichthus parilis* (Richardson).

Cuba to Brazil.

*Ophisurus parilis* Richardson, Voy. Erebus and Terror, 105, 1844, West Indies.

Genus 185. **MYSTRIOPHIS** Kaup.

*Mystriophis* Kaup, Apodes, 10, 1856 (*rostellatus*).

Subgenus **ECHIOPSIS** Kaup.

*Echiopsis* Kaup, Abhandl. Natur. Verein Hamburg, iv, 13, 1860 (*intertinctus*).

650. *Mystriophis intertinctus* (Richardson).

West Indies, north to Pensacola, Florida.

*Ophisurus intertinctus* Richardson, Voy. Erebus and Terror, Fishes, 102, 1844, West Indies.

Genus 186. **SCYTALICHTHYS** Jordan & Davis.

*Soytalichthys* Jordan & Davis, Apodal Fishes, 635, 1892 (*miurus*).

651. *Soytalichthys miurus* (Jordan & Gilbert).

Cape San Lucas, Lower California.

*Ophichthys miurus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 357, Cape San Lucas, Lower California.

Genus 187. **BRACHYSOMOPHIS** Kaup.

*Brachysomophis* Kaup, Apodes, 9, 1856 (*horridus*).

652. *Brachysomophis crocodilinus* (Bennett).

East Indies; a specimen recorded by Günther from the Galapagos.

*Ophisurus crocodilinus* Bennett, Proc. Zool. Soc. Lond. 1833, 32, Mauritius.

Suborder **COLOCEPHALI**.

Family **LIII. MURÆNIDÆ. The Morays.**

Genus 188. **ENCHELYCORE** Kaup.

*Enchelycore* Kaup, Apodes, 72, 1856 (*euryrhina*).

653. *Enchelycore nigricans* (Bonnaterre).

West Indies; rather common.

*Muræna nigricans* Bonnaterre, Encycl. Meth. Ichth., 34, 1788, South America; after Gronow.

Genus 189. **PYTHONICHTHYS** Poey.

*Pythonichthys* Poey, Repertorio, ii, 265, 1867 (*sanguineus*).

654. *Pythonichthys sanguineus* Poey.

Coast of Cuba, in rather deep water.

*Pythonichthys sanguineus* Poey, Repertorio, ii, 265, pl. 2, fig. 7, 1867, Cuba.

Genus 190. **RABULA** Jordan & Davis.

*Rabula* Jordan & Davis, Apodal Fishes, 589, 1892 (*aquædulcis*).

655. *Rabula aquædulcis* (Cope).

Two specimens known, one said to be from San Diego, the type from Rio Grande in Costa Rica.

*Muræna aqua-dulcis* Cope, U. S. Geol. Surv. Mont., etc., 474, 1871 (1872), Rio Grande near San Jose, Costa Rica.

656. *Rabula marmorea* (Valenciennes).

Galapagos Islands.

*Muranophis marmoreus* Valenciennes, Voy. Vénus, Zool., 347, pl. 10, fig. 1, 1855, Galapagos Archipelago.



*Lycodontis pictus* (Ahl)  
Locos + Clarin.

**657. *Rabula panamensis* (Steindachner).**

Pacific Coast of Central America.

*Muraena panamensis* Steindachner, Ichth. Beit., v, 19, 1876, Panama.**658. *Rabula longicauda* (Peters).**

Tropical Atlantic, off the West Indies.

*Muraena longicauda* Peters, Berliner Monatsberichte 1876, 850, open Atlantic.**Genus 191. LYCODONTIS McClelland.***Lycodontis* McClelland, Calcutta Jour. Nat. Hist., v, No. 18, 1844, 173 (*literata* = *tile*).**Subgenus LYCODONTIS McClelland.****659. *Lycodontis verrilli* (Jordan & Gilbert).**

Panama; one specimen known.

*Sidera verrilli* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 623, Panama.**660. *Lycodontis vicinus* (Castelnau).**

Tropical Atlantic, Cuba to Africa and Brazil.

*Muraenophis vicina* Castelnau, Anim. Amer. Sud. Poiss., 81, pl. 42, fig. 4, 1855, Bahia, Brazil.**661. *Lycodontis virescens* (Poey).**

Cuba.

*Gymnothorax virescens* Poey, Enumeratio, 156, 1875, Cuba.**662. *Lycodontis polygonius* (Poey).**

Cuba.

*Gymnothorax polygonius* Poey, Ann. N. Y. Lyc. Nat. Hist. 1870, 68, Havana.**663. *Lycodontis moringa* (Cuvier). *Common Spotted Moray; Hamlet; Eel.***

West Indies, Pensacola to Rio Janeiro and St. Helena.

*Muraena moringa* Cuvier, Règne Animal, ed. II, vol. 2, 352, 1829, Bahamas; after Catesby.**664. *Lycodontis mordax* (Ayres). *Conger Eel of California.***

Point Conception to Cerros Island; abundant about the Santa Barbara Islands.

*Muraena mordax* Ayres, Proc. Ac. Nat. Sci. Cal. 1859, 30, Cerros Island.**665. *Lycodontis funebris* (Ranzani). *Black Moray; Morena Verde.***

Tropical America on both coasts; common from Florida Keys to Rio Janeiro, and from Gulf of California to Panama.

*Gymnothorax funebris* Ranzani, Nov. Com. Ac. Sci. Inst. Bonon., IV, 76, 1840, Brazil.**666. *Lycodontis castaneus* (Jordan & Gilbert.)**

Pacific coast from Gulf of California to Panama

*Sidera castanea* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 647, Mazatlan.**667. *Lycodontis sanctæ-helenæ* (Günther).**

Tropical Atlantic; recorded from St. Helena and the Bermudas.

*Muraena sanctæ-helenæ* Günther, Cat., VIII, 115, 1870, St. Helena.**668. *Lycodontis dovii* (Günther). *Morena Pintita.***

Gulf of California to the Galapagos Archipelago.

*Muraena dovii* Günther, Cat., VIII, 103, 1870, Panama.**669. *Lycodontis conspersus* (Poey).**

Cuba to Rio Janeiro.

*Gymnothorax conspersus* Poey, Repertorio, II, 259, 1868, Cuba.**670. *Lycodontis miliaris* (Kaup).**

West Indies.

*Thrysoidea miliaris* Kaup, Apodes, 90, 1856, Martinique.



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671. *Lycodontis elaboratus* (Poey).

Cuba.

*Muraena elaborata* Poey, *Memorias*, II, 323, 1860, Cuba.

672. *Lycodontis obscuratus* (Poey).

Cuba.

*Gymnothorax obscuratus* Poey, *Ann. Lyc. Nat. Hist. N. Y.*, IX, 1870, 320. Cuba.

673. *Lycodontis chlevastes* (Jordan & Gilbert).

Galapagos Islands.

*Sidera chlevastes* Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1883, 208, Galapagos Islands.

Subgenus PRIODONOPHIS Kaup.

*Priodonophis* Kaup, *Aalenahnliche Fische Hamburg Museum*, 22, 1859 (*ocellatus*).

674. *Lycodontis ocellatus* (Agassiz). *Spotted Moray*; *Moray Eel*.

Pensacola to Rio Janeiro.

*Gymnothorax ocellatus* Agassiz, *Spix, Pisc. Brasil.*, 91, pl. 50b, 1828, Brazil.

674a. *Lycodontis ocellatus saxicola* (Jordan & Davis).

Snapper Banks off Pensacola and deep water off Cuba.

*Gymnothorax ocellatus saxicola* Jordan & Davis, *Apodal Fishes*, 606, 1892, Snapper Banks off Pensacola, Florida.

674b. *Lycodontis ocellatus nigromarginatus* (Girard).

Coasts of west Florida and Texas.

*Neomuraena nigromarginata* Girard, *U. S. and Mex. Bound. Surv.*, 76, pl. 41, 1859, St. Joseph Island, Texas.

Genus 192. MURÆNA (Artedi) Linnæus. *Morays*.

*Muraena* Artedi, in Linnæus, *Syst. Nat.*, ed. x, 244, 1758 (*helena*).

675. *Muraena insularum* Jordan & Davis.

Galapagos Islands.

*Muraena insularum* Jordan & Davis, *Apodal Fishes*, 609, 1892, Chatham Island, Galapagos Islands.

676. *Muraena argus* (Steindachner).

Altata, west coast of Mexico.

*Gymnothorax (Limamuræna) argus* Steindachner, *Ichth. Notizen*, x, 17, pl. IV, 1870, Altata, west coast of Mexico.

677. *Muraena retifera* Goode & Bean.

Coast of South Carolina, in rather deep water.

*Muraena retifera* Goode & Bean, *Proc. U. S. Nat. Mus.* 1882, 435, off Charleston.

678. *Muraena melanotis* (Kaup).

Tropical Atlantic, from Africa to South America.

*Limamuræna melanotis* Kaup, *Aale Hamb. Mus.*, 27, pl. 4, fig. 3, 1860.

679. *Muraena lentiginosa* Jenyns. *Morena Pinta*.

Pacific Coast of America from Gulf of California to Galapagos.

*Muræna lentiginosa* Jenyns, *Voy. Beagle, Zool.*, 143, 1842, Galapagos Islands.

Genus 193. ECHIDNA Forster.

*Echidna* Forster, *Enchiridion*, 31, 1778 (*variegata*).

680. *Echidna nocturna* (Cope).

Pacific Coast of Mexico, the two known specimens from Rio Grande, in Costa Rica, and from Cape San Lucas.

*Pæcilophis nocturnus* Cope, *U. S. Geol. Surv. Mont.*, 474, 1871 (1872), Rio Grande at San Jose, Costa Rica.

681. *Echidna catenata* (Bloch).

West Indies, from Bermuda to Surinam; our specimens from San Lucia.

*Gymnothorax catenatus* Bloch, *Ausl. Fische*, XII, 74, pl. 415, fig. 1, 1795, *Coromandel*; an error.





**Genus 194. UROPTERYGIUS** Ruppell.*Uropterygius* Ruppell, Neue Wirbelthiere, Fische, 83, 1838 (*concolor*).**Subgenus SCUTICA** Jordan & Evermann.*Scutica* Jordan & Evermann, Fishes North and Middle America, 404, 1896 (*necturus*).**682. Uropterygius necturus** (Jordan & Gilbert).

Gulf of California.

*Gymnomuraena nectura* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 356, Cape San Lucas.**Genus 195. CHANNOMURÆNA** Richardson.*Channo-muraena* Richardson, Voy. Erebus and Terror, 96, 1844 (*vittata*).**683. Channomuraena vittata** (Richardson).

Coasts of Cuba.

*Ichthyophis vittatus* Richardson, Voy. Sulph., Fish., 114, pl. 53, figs. 7-9, 1844, locality uncertain.**Order R. LYOMERI. The Gulpers.****Family LIV. SACCOPHARYNGIDÆ. The Gulpers.****Genus 196. SACCOPHARYNX** Mitchill.*Saccopharynx* Mitchill, Ann. Lyc. Nat. Hist. N. Y. 1824, 82 (type afterwards called *S. flagellum*).**684. Saccopharynx ampullaceus** (Harwood).

Atlantic.

*Ophiognathus ampullaceus* Harwood, Phil. Trans. 1827, 52, Atlantic.**Family LV. EURYPHARYNGIDÆ.****Genus 197. GASTROSTOMUS** Gill & Ryder.*Gastrostomus* Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 271 (*bairdii*).**685. Gastrostomus bairdii** Gill & Ryder.

Deep water off Newfoundland Banks and Davis Strait.

*Gastrostomus bairdii* Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 271, off the Grand Banks.**Order S. ISOSPONDYLI. The Isospondylous Fishes.****Family LVI. ELOPIDÆ. The Tarpons.****Genus 198. TARPON** Jordan & Evermann. *Grand Écaille*.*Tarpon* Jordan & Evermann, Fishes North and Middle America, 409, 1896 (*atlanticus*).**686. Tarpon atlanticus** (Cuvier & Valenciennes). *Tarpon; Tarpum; Grand Écaille*.

Long Island to Brazil.

*Megalops atlanticus* Cuvier & Valenciennes, Hist. Nat. Poiss., xix, 398, 1846, Guadeloupe; San Domingo; Martinique; Porto Rico.**Genus 199. ELOPS** Linnæus.*Elops* Linnæus, Syst. Nat., ed. xii, 518, 1766 (*saurus*).**687. Elops saurus** Linnæus. *Tenpounder; John-Mariggle; Bony-fish; Bone-fish; Big-eyed Herring; Matajuelo Real; Lisa Francesa*.

Tropical seas; common north to the Gulf of California and to Long Island on the Atlantic Coast.

*Elops saurus* Linnæus, Syst. Nat., ed. xii, 518, 1766, Carolina.

## Family LVII. ALBULIDÆ. The Lady-Fishes.

Genus 200. ALBULA (Gronow) Bloch &amp; Schneider.

*Albula* Gronow, Zoophyl., 102, 1763 (nonbinomial).688. *Albula vulpes* (Linnæus). Lady-fish; Bone-fish; Macabi; Banana-fish.

Tropical seas, ranging northward to San Diego and Long Island.

*Esox vulpes* Linnæus, Syst. Nat., ed. x, 313, 1758, Bahamas, etc.; based on the bone-fish, *Vulpes bahamensis*, of Catesby.

## Family LVIII. HIODONTIDÆ. The Moon-eyes.

Genus 201. HIODON LeSueur.

*Hiodon* LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1818, 334 (*tergisus*).

Subgenus AMPHIODON Rafinesque.

*Amphiodon* Rafinesque, Jour. Physique 1819, 421 (*alosoides*).689. *Hiodon alosoides* (Rafinesque). La Quesche; Naccaysh.

Ohio River and north to the Saskatchewan.

*Amphiodon alosoides* (misprinted *alreoides*) Rafinesque, Jour. Phys., Paris, 1819, 421, Ohio River.

Subgenus HIODON LeSueur.

690. *Hiodon tergisus* LeSueur. Moon-eye; Toothed Herring.

Great Lakes and Mississippi Valley, north to Assiniboine River.

*Hiodon tergisus* LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1818, 364, Ohio River.691. *Hiodon selenops* Jordan & Bean.

Tennessee, Cumberland, and Alabama rivers.

*Hiodon selenops* Jordan & Bean, Bull. U. S. Nat. Mus., x, 67, 1877, Chattanooga, Tennessee.

## Family LIX. CHANIDÆ. The Milk-Fishes.

Genus 202. CHANOS Lacépède.

*Chanos* Lacépède, Hist. Nat. Poiss., v, 395, 1803 (*arabicus*).692. *Chanos chanos* (Forskål). Milkfish; Sabalo; Ana; Chani; Anged.

Pacific and Indian oceans, north to Hawaiian Islands and Gulf of California.

*Mugil chanos* Forskal, Deser. Anim., 74, 1775, Red Sea at Djidda, Arabia.

## Family LX. DOROSOMATIDÆ. The Gizzard Shads.

Genus 203. DOROSOMA Rafinesque. Gizzard Shad.

*Dorosoma* Rafinesque, Ichth. Ohiensis, 39, 1820 (*notata* = *cepedianum*).693. *Dorosoma cepedianum* (LeSueur). Gizzara Shad; Hickory Shad.

Cape Cod to Mexico; from New Jersey and the Great Lakes to Nebraska and Texas.

*Megalops cepediana* LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1818, 361, Delaware and Chesapeake bays.693a. *Dorosoma cepedianum exile* Jordan & Gilbert.

Coastal region of Texas.

*Dorosoma cepedianum exile* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 585. Galveston, Texas.694. *Dorosoma mexicanum* (Günther).

East coast of Mexico.

*Chatoissus mexicanus* Günther, Cat., vii, 409, 1868, Mexico.695. *Dorosoma petenense* (Günther).

Lake Peten, Yucatan.

*Chatoissus petenensis* Günther, Cat., vii, 408, 1868, Lake Peten, Yucatan.

*Siphonia nemoptera* Jor.  
San Domingo, M.

*Elatostylus chrysopterus* = *imphestrus*  
689, 1909. *Aloroides* Kütz.

*D. alchafalaiae*  
Alch. R. La.  
Guernsey



## Family LXI. CLUPEIDÆ. The Herrings.

## Genus 204. JENKINSIA Jordan &amp; Evermann.

*Jenkinsia* Jordan & Evermann, Fishes N. and M. Amer., 418, 1896 (*stolifera*).

696. *Jenkinsia acuminata* (Gilbert).

Gulf of California.

*Etrumeus acuminatus* Gilbert, Proc. U. S. Nat. Mus. 1890, 56, Gulf of California.

697. *Jenkinsia lamprotaenia* (Gosse).

Jamaica.

*Clupea lamprotaenia* Gosse, Nat. Sojourn Jam., 291, pl. 1, fig. 2, 1851, Jamaica.

698. *Jenkinsia stolifera* (Jordan & Gilbert).

Gulf of Mexico from Florida to Yucatan.

*Dussumieria stolifera* Jordan & Gilbert, Proc. U. S. N. M. 1884, 25, Key West.

## Genus 205. ETRUMEUS Bleeker.

*Etrumeus* Bleeker, Verh. Bat. Gen. Japan, xxv, 58, 1853 (*micropus*, a Japanese species).

699. *Etrumeus sadina* (Mitchill). *Round Herring*.

Cape Cod to Gulf of Mexico.

*Clupea sadina* Mitchill, Trans. Lit. Phil. Soc. N. Y. 1815, 457, New York.

## Genus 206. PERKINSIA Rosa Smith Eigenmann.

*Perkinsia* Rosa Smith Eigenmann, Am. Nat., February, 1891, 153 (*othonops*).

700. *Perkinsia othonops* Rosa Smith Eigenmann.

Point Loma, San Diego.

*Perkinsia othonops* Rosa Smith Eigenmann, Am. Nat., February, 1891, 152, San Diego, Cal.

## Genus 207. CLUPEA (Artedi) Linnæus.

*Clupea* (Artedi) Linnæus, Syst. Nat., ed. x, 317, 1758 (*harengus*).

701. *Clupea harengus* Linnæus. *Common Herring*.

North Atlantic Ocean, south on our coast to Sandy Hook.

*Clupea harengus* Linnæus, Syst. Nat., ed. x, 317, 1758, seas of Europe.

702. *Clupea pallasii* Cuvier & Valenciennes. *California Herring*

Pacific Coast from Kamchatka to San Diego.

*Clupea pallasii* Cuvier & Valenciennes, Hist. Nat. Poiss., xx, 253, 1847, Kamchatka; based on Pallas's specimens.

## Genus 208. CLUPANODON Lacépède.

*Sardinella*

*Clupanodon* Lacépède, Hist. Nat. Poiss., v, 468, 1803 (*pilchardus*, etc.).

703. *Clupanodon* ~~caeruleus~~ <sup>*Sardinella*</sup> (Girard). *California Sardine*.

Pacific Coast, from Puget Sound to Magdalena Bay.

*Maletta caerulea* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 138, San Francisco.

704. *Clupanodon pseudohispanicus* (Poey). *Sardina de España*.

*Sardinia*

Gulf of Mexico, Cuba, Pensacola, and Tampa; northward to Cape Cod.

*Sardinia pseudohispanica* Poey, Memorias, II, 311, 1860, Cuba.

## Genus 209. POMOLOBUS Rafinesque.

*Pomolobus* Rafinesque, Ichth. Ohiensis, 38, 1820 (*chrysochloris*).

705. *Pomolobus chrysochloris* Rafinesque. *Skipjack; Blue Herring*.

Gulf of Mexico and Mississippi Valley; Lake Erie and Lake Michigan.

*Pomolobus chrysochloris* Rafinesque, Ichth. Ohiensis, 38, 1820, Ohio River.

706. *Pomolobus mediocris* (Mitchill). *Hickory Shad; Hickory Jack; Fall Herring; Tailor Herring; Mattowacca*.

Atlantic Coast of United States from Maine to Florida.

*Clupea mediocris* Mitchill, Trans. Lit. Phil. Soc. N. Y., 1, 1815, 450, New York.



707. *Pomolobus pseudoharengus* (Wilson). *Alewife; Branch Herring; Gaspercan; Wall-eyed Herring; Big-eyed Herring; Ellwife; Bang.*

Atlantic Coast of United States; Lake Ontario.

*Clupea pseudoharengus* Wilson, Rees's Encycl., ix, about 1811, probably Delaware River near Philadelphia.

708. *Pomolobus æstivalis* (Mitchill). *Glut Herring; Blueback; Blackback; Summer Herring; Kyaok; Saw-belly.*

Atlantic Coast.

*Clupea æstivalis* Mitchill, Trans. Lit. Phil. Soc. N. Y., i, 1815, 456, New York.

Genus 210. *ALOSA* Cuvier. *The Shad.*

*Alosa* Cuvier, Règne Animal, ed. 2, ii, 319, 1829 (*alosa*).

709. *Alosa alabamæ* Jordan & Evermann. *Alabama Shad.*

Gulf Coast of United States.

*Alosa alabamæ* Jordan & Evermann, Rept. U. S. Fish Com. 1895 (1896), 203, Black Warrior River, Tuscaloosa, Alabama.

710. *Alosa sapidissima* (Wilson). *Common Shad; American Shad; North River Shad; Potomac Shad; Connecticut Shad; Delaware Shad.*

Atlantic Coast of United States from Miramachi River to Florida; from Monterey northward on the Pacific Coast, as an introduced species.

*Clupea sapidissima* Wilson, Rees's New Cyclopaedia, ix, no pagination nor date, but prior to 1812, probably Philadelphia.

Genus 211. *SARDINELLA* Cuvier & Valenciennes. *Scaled Sardines.*

*Sardinella* Cuvier & Valenciennes, Hist. Nat. Poiss., xx, 261, 1847 (*aurita*).

Subgenus *SARDINELLA* Cuvier & Valenciennes.

711. *Sardinella anchovia* Cuvier & Valenciennes.

Martinique to Brazil.

*Sardinella anchovia* Cuvier & Valenciennes, Hist. Nat. Poiss., 269, 1847, Rio Janeiro; Martinique.

712. *Sardinella clupei* (Cuvier & Valenciennes).

Guadeloupe.

*Harengula clupei* Cuvier & Valenciennes, Hist. Nat. Poiss., xx, 289, 1847, Guadeloupe.

713. *Sardinella apicalis* (Müller & Troschel).

Barbados.

*Alosa apicalis* Müller & Troschel, in Schomburgk, Hist. Barbados, 675, 1848, Barbados.

714. *Sardinella bispinosa* (Müller & Troschel).

Barbados.

*Alosa bispinosa* Müller & Troschel, in Schomburgk, Hist. Barbados, 675, 1848, Barbados.

Subgenus *HARENGULA* Cuvier & Valenciennes.

*Harengula* Cuvier & Valenciennes, Hist. Nat. Poiss., xx, 280, 1847 (*latula*).

715. *Sardinella sardina* (Poey). *Sardina de Ley.*

West Indian fauna, north to Key West.

*Harengula sardina* Poey, Memorias, ii, 310, 1860, Cuba.

716. *Sardinella macrophthalma* (Ranzani).

West Indies; Cuba to Brazil.

*Clupea macrophthalma* Ranzani, Nov. Com. Ac. Sci. Bonon., v, 320, 1842, Brazil.

717. *Sardinella thrissina* (Jordan & Gilbert).

Gulf of California.

*Clupea thrissina* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 353, Cape San Lucas, Lower California.

Manusula

Sardines

Gen. Manusula

g

genus *Lila*

• ...

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- 718. *Sardinella humeralis* (Cuvier & Valenciennes).** *Sardina Escamuda*; *White-bill*; *Pincers*.

West Indies and Gulf of Mexico; Pensacola and Cedar Keys southward.

*Harengula humeralis* Cuvier & Valenciennes, Hist. Nat. Poiss., xx, 293, 1847, Rio Janeiro, Bahia, Guadeloupe, and San Domingo.

~~Subgenus~~ **LILE** Jordan & Evermann.

*Lile* Jordan & Evermann, Fishes North and Middle America, 431, 1896 (*stolifera*).

- 719. *Sardinella stolifera* (Jordan & Gilbert).**

Gulf of California to Panama.

*Clupea stolifera* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 339, Mazatlan.

**Genus 212. OPISTHONEMA** Gill. *Thread Herring*.

*Clupanodon*

*Opisthonema* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 37 (*thrissa* = *oglinum*).

- 720. *Opisthonema oglinum* (LeSueur).** *Thread Herring*; *Machuelo*; *Sprat*; *Cailleu-Tassart*.

West Indian fauna, ranging regularly north to Florida and Carolina; Longport, New Jersey; Newport, Rhode Island; Fortress Monroe.

*Megalops oglina*, LeSueur, Jour. Ac. Nat. Sci. Phila., i, 1817, 359, Newport, Rhode Island.

- 721. *Opisthonema libertatis* (Günther).**

Pacific Coast of Mexico and Central America.

*Meletia libertatis* Günther, Proc. Zool. Soc. Lond. 1866, 603, Libertad, Central America.

**Genus 213. BREVOORTIA** Gill. *The Menhadens*.

*Brevoortia* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 37 (*menhaden* = *tyrannus*).

- 722. *Brevoortia tyrannus* (Latrobe).** *Menhaden*; *Mossbunker*; *Bony-fish*; *White-fish*; *Bug-fish*; *Fatback*; *Yellow-tail*; *Pogy*.

Nova Scotia to Brazil.

*Clupea tyrannus* Latrobe, Trans. Amer. Phil. Soc. Phila., v, 1802, 77, pl. 1, Chesapeake Bay.

- 722a. *Brevoortia tyrannus aurea* (Agassiz).**

Coast of Brazil.

*Clupanodon aureus* Agassiz, Spix, Pisc. Brasil., 52, 1828, Brazil.

- 722b. *Brevoortia tyrannus breviceaudata* Goode.**

Noank, Connecticut, and south.

*Brevoortia tyrannus breviceaudata* Goode, Proc. U. S. Nat. Mus. 1878, 34, Noank, Connecticut.

- 722c. *Brevoortia tyrannus patronus* Goode.** *Gulf Menhaden*.

Gulf of Mexico.

*Brevoortia patronus* Goode, Proc. U. S. Nat. Mus., i, 1878, 39, Brazos Santiago, Texas.

**Genus 214. CHIROCENTRODON** Günther.

*Chirocentrodon* Günther, Cat., vii, 463, 1868 (*tæniatus*).

- 723. *Chirocentrodon tæniatus* Günther.**

Jamaica.

*Chirocentrodon tæniatus* Günther, Cat., vii, 463, 1868, Jamaica.

**Genus 215. ILISHA** Gray.

*Ilisha* Gray, in Richardson, Ichthyol. Chin., in Proc. Brit. Assoc. 1845 (1846), 306 (*abnormis*).

- 724. *Ilisha flavipinnis* (Valenciennes).**

Coast of Surinam and Brazil.

*Pristigaster flavipinnis* Valenciennes, in D'Orbigny, Voy. Amer. MÉR., Poiss., pl. 10, fig. 2, 1839, Buenos Ayres.

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725. *Elisha bleekariana* (Poey).

Matanzas, Cuba.

*Pellona bleekariana* Poey, Repertorio, II, 242, 1867, Matanzas, Cuba.

726. *Elisha furthii* (Steindachner).

Panama.

*Pellona fürthii* Steindachner, Ichth. Beitr., I, 14, 1874, Panama.

Genus 216. **OPISTHOPTERUS** Gill.

(*Opisthopterus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 31 (*lartour*)).

727. *Opisthopterus lutipinnis* (Jordan & Gilbert).

Pacific Coast of Mexico.

*Pristigaster lutipinnis* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 310, Mazatlan, Mexico.

728. *Opisthopterus dovii* (Günther).

Panama.

*Pristigaster dovii* Günther, Cat., VII, 461, 1868, Panama.

729. *Opisthopterus macrops* (Günther).

Panama.

*Pristigaster macrops* Günther, Proc. Zool. Soc. Lond. 1866, 603, and Cat., VII, 461, 1868, Panama.

Genus 217. **ODONTOGNATHUS** Lacépède.

*Odontognathus* Lacépède, Hist. Nat. Poiss., II, 221, 1790 (*mucronatus*).

730. *Odontognathus mucronatum* Lacépède.

Coast of Guiana.

*Odontognathus mucronatus* Lacépède, Hist. Nat. Poiss., 221, pl. 7, fig. 2, 1799, Cayenne.

731. *Odontognathus panamense* (Steindachner).

Panama.

*Pristigaster* (*Odontognathus*) *panamensis* Steindachner, Ichth. Beitr., V, 24, 1876, Panama.

Genus 218. **PRISTIGASTER** Cuvier.

*Pristigaster* Cuvier, Règne Anim., ed. I, 176, 1817 (*cayanus*).

732. *Pristigaster cayanus* Cuvier.

Coast of Guiana and northern Brazil.

*Pristigaster cayanus* Cuvier, Règne Anim., ed. I, pl. 10, fig. 3, 1817, Cayenne.

Family LXII. **ENGRAULIDIDÆ**. The Anchovies.

Genus 219. **STOLEPHORUS** Lacépède. *Silvery Anchovies*.

*Stolephorus* Lacépède, Hist. Nat. Poiss., V, 381, 1803 (*japonica*).

733. *Stolephorus miarchus* Jordan & Gilbert.

Pacific Coast of America from Mazatlan to Panama.

*Stolephorus miarchus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 344, Mazatlan, Mexico.

734. *Stolephorus perfasciatus* (Poey). *Grubber Broadhead*.

Florida Keys to Cuba and Jamaica.

*Engraulis perfasciatus* Poey, Memorias, II, 313, 1860, Cuba.

735. *Stolephorus exiguus* Jordan & Gilbert.

Pacific Coast of Mexico at Mazatlan.

*Stolephorus exiguus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 342, Mazatlan.

736. *Stolephorus cubanus* (Poey).

Cuba and Porto Rico.

*Engraulis cubanus* Poey, Synopsis, 420, 1868, Cuba.

Medipellona Seal

*Ulisia panamensis* = same

- 2. fusodecimus* Cope
- a. tapinulus* Cope. Phil. Acad. Nat. Sci. 1877. 45
- a. caryerum* Fowler. Panama B. Peru. 1906. 85
- halien* Rock. Fla Keys
- Anchorella* Fowler 1911
- perforatus* = *Stolephorus* = *Euchromis* common
- Anchovia* *ocutula* San Diego
- a. lapi* *dentostole* Surinam
- a. platysoma* St. Martin

Stolephorus scopeloides Jordan & Gilbert  
Mayaguez.

Stolephorus nasus (Lacepede) Peron & Lesauv.

S. gilesii is a Ceterogrammus (Lacepede)

S. garmani gr. 40 same

- An - ella*  
**737. *Stolephorus pertheoatus* Goode & Bean.**  
 Pensacola, Florida.  
*Stolephorus pertheoatus* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 434, Pensacola, Florida.
- An - ella*  
**738. *Stolephorus ischanus* Jordan & Gilbert.**  
 Pacific Coast of America from Mazatlan to Panama.  
*Stolephorus ischanus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 340, Mazatlan, Mexico.
- Anchoa - ella*  
**739. *Stolephorus brownii* (Gmelin).** *Striped Anchovy; Manjua; Anchovy Fry.*  
 Cape Cod to Brazil.  
*Atherina brownii* Gmelin, Syst. Nat., 1397, 1788, Jamaica; after Brown.
- An - ella*  
**740. *Stolephorus cultratus* Gilbert.**  
 Santa Margarita Island, Lower California.  
*Stolephorus cultratus* Gilbert, Proc. U. S. Nat. Mus. 1891, 544, Santa Margarita Island, Lower California.
- Anch - ella*  
**741. *Stolephorus delicatissimus* (Girard).**  
 San Diego Bay and southward on coast of Lower California.  
*Engraulis delicatissimus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 154, and Pac. R. R. Surv., x, 335, 1858, San Diego.
- Anch - ella*  
**742. *Stolephorus chcerostomus* (Goode).** *Hog-mouth Fry.*  
 Bermuda Islands; common in Hamilton Harbor.  
*Engraulis chcerostomus* Goode, Am. Jour. Sci. Arts, August, 1874, 125, Bermudas.
- Anch - ella*  
**743. *Stolephorus argyrophanus* (Cuvier & Valenciennes).**  
 Gulf Stream; Woods Hole, Massachusetts.  
*Engraulis argyrophanus* Cuvier & Valenciennes, Hist. Nat. Poiss., xxi, 49, 1848, equatorial Atlantic.
- Anch*  
**744. *Stolephorus curtus* Jordan & Gilbert.**  
 Mazatlan, Mexico.  
*Stolephorus curtus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 343, Mazatlan, Mexico.
- Anch - ella*  
**745. *Stolephorus astilbe* Jordan & Rutter.**  
 West Indies.  
*Stolephorus astilbe* Jordan & Rutter, Proc. Ac. Nat. Sci. Phila. 1896, Jamaica.
- Anch*  
**746. *Stolephorus poeyi* (Kner & Steindachner).**  
 Rio Bayano, near Panama.  
*Engraulis poeyi* Kner & Steindachner, Abh. Bayer Ak. Wiss., x, 1864, 23, with plate, Rio Bayano, near Panama.
- Anch*  
**747. *Stolephorus robertsi* Jordan & Rutter.**  
 West Indies.  
*Stolephorus robertsi* Jordan & Rutter, Proc. Ac. Nat. Sci. Phila. 1896, Jamaica.
- Anch - ella*  
**748. *Stolephorus opercularis* Jordan & Gilbert.**  
 Gulf of California to Panama.  
*Stolephorus opercularis* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 275, Punta San Felipe, Gulf of California.
- Anch - ella*  
**749. *Stolephorus mitchilli* (Cuvier & Valenciennes).**  
 Cape Cod to Texas.  
*Engraulis mitchilli* Cuvier & Valenciennes, Hist. Nat. Poiss., xxi, 50, 1848, New York; Carolina; Lake Pontchartrain, Louisiana.
- Anch - ella*  
**750. *Stolephorus lucidus* Jordan & Gilbert.** *"Sardina."*  
 Mazatlan, Mexico.  
*Stolephorus lucidus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 341, Mazatlan, Mexico.



751. *Stolephorus clupeioides* (Swainson). *Anchovia* *productus*  
Coast of Guiana and southward.  
*Engraulis? clupeioides* Swainson, Nat. Hist. Fishes, II, 388, 1839, Pernambuco, Dutch Guiana.
752. *Stolephorus compressus* (Girard). *Anch - ella*  
Point Conception to Lower California.  
*Engraulis compressus* Girard, U. S. Pac. R. R. Surv., x, 336, 1858, San Diego, Cal.
753. *Stolephorus panamensis* (Steindachner). *Anch - ella*  
Panama.  
*Engraulis panamensis* Steindachner, Ichth. Beitr., iv, 39, 1875, Panama.
754. *Stolephorus spinifer* (Cuvier & Valenciennes). *Anch - ella*  
Coast of Guiana; recorded from Panama by Steindachner.  
*Engraulis spinifer* Cuvier & Valenciennes, Hist. Nat. Poiss., xxi, 39, 1848, Cayenne, French Guiana.

Genus 220. ENGRAULIS Cuvier. *Anchovies*.

*Engraulis* Cuvier, Règne Animal, ed. 1, 174, 1817 (*encrasicholus*).

755. *Engraulis mordax* Girard. *California Anchovy*.  
Pacific Coast of America from Vancouver Island to Lower California.  
*Engraulis mordax* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 138, and in Pac. R. R. Surv., x, 334, 1858, Shoalwater (now Willapa) Bay, Washington.

Genus 221. ANCHOVIA Jordan & Evermann.

*Anchovia* Jordan & Evermann, Fishes North and Middle America, 449, 1896  
(*macrolepidota*).

756. *Anchovia producta* (Poey). *Hechudo; Grubber Broadhead*. *clupeoides*  
Cuba and Jamaica.  
*Engraulis productus* Poey, Repertorio, 380, 1866, Cuba.

757. *Anchovia macrolepidota* (Kner & Steindachner). *Sardina Bocona*.  
Gulf of Mexico to Panama.  
*Engraulis macrolepidotus* Kner & Steindachner, Abhandl. Bayer Akad. Wiss., x, 1864, 21, pl. 3, fig. 2, Rio Bayano, Panama.

Genus 222. CETENGRAULIS Günther.

*Cetengraulis* Günther, Cat., VII, 383, 1868 (*edentulus*).

758. *Cetengraulis mysticetus* (Günther).  
Panama.  
*Engraulis mysticetus* Günther, Proc. Zool. Soc. Lond. 1866, 604, Panama.

759. *Cetengraulis edentulus* (Cuvier). *Bocon; Tarpong Fry*.  
West Indies to Brazil; common in Cuba.  
*Engraulis edentulus* Cuvier, Règne Animal, ed. II, vol. 2, 323, 1829, Jamaica; after Sloane.

Genus 223. PTERENGRAULIS Günther.

*Pterengraulis* Günther, Cat., VII, 398, 1868 (*atherinoides*).

760. *Pterengraulis atherinoides* (Linnaeus).  
Coasts of Guiana and Brazil.  
*Clupea atherinoides* Linnaeus, Syst. Nat., ed. XII, 523, 1766, Surinam.

Genus 224. LYCENGRAULIS Günther.

*Lycengraulis* Günther, Cat., VII, 399, 1868 (*grossidens*).

761. *Lycengraulis grossidens* (Cuvier).  
Coasts of Guiana and Brazil.  
*Engraulis grossidens* Cuvier, in Agassiz, Spix, Pisc. Brasil., 50, 1828, Rio Janeiro.

*batian* *Pana*

Genus Anchovia, ~~not~~ valid.  
many gill rakers -  
upward = 100, 120 = curimanensis

? A. pallida <sup>Starks</sup> garmani 1911.  
garmani A & curimanensis Marsh

A. nattereri Stead 1891

Ctenopoma erythrum

Procyon Cuba ?  
batini Starks 1911

Encara

Hill & Townsend.  
Benj. Sec.

## Family LXIII. ALEPOCEPHALIDÆ.

## Genus 225. ALEPOCEPHALUS Risso.

*Alepocephalus* Risso, Mem. Ac. Nat. Sci. Turin, xxv, 270, 1820 (*rostratus*).

762. *Alepocephalus productus* Gill.

Gulf Stream.

*Alepocephalus productus* Gill, Proc. U. S. Nat. Mus. 1883, 256, Gulf Stream, at Albatross Station 2035, in 1,362 fathoms.

763. *Alepocephalus agassizii* Goode & Bean.

Gulf Stream.

*Alepocephalus agassizii* Goode & Bean, Bull. Mus. Comp. Zool., No. 5, vol. x, 215, 1882, Gulf Stream, at latitude 30°, in 922 fathoms.

764. *Alepocephalus tenebrosus* Gilbert.

Santa Barbara Channel, California.

*Alepocephalus tenebrosus* Gilbert, Proc. U. S. Nat. Mus. 1891, 545, Santa Barbara Channel, California, at Albatross Stations 2839, 2923, and others, in 359 to 822 fathoms.

## Genus 226. MITCHILLINA Jordan &amp; Evermann.

*Mitchillina* Jordan & Evermann, Fishes North and Middle America, 453, 1896 (*bairdii*).

765. *Mitchillina bairdii* (Goode & Bean).

Grand Banks of Newfoundland.

*Alepocephalus bairdii* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 55, Grand Banks of Newfoundland.

## Genus 227. BATHYTROCTES Günther.

*Bathytroctes* Günther, Ann. Mag. Nat. Hist. 1878, 249 (*microlepis*).

766. *Bathytroctes stomias* Gilbert.

Coast of Oregon.

*Bathytroctes stomias* Gilbert, Proc. U. S. Nat. Mus. 1890, 53, coast of Oregon, at Albatross Station 3074, in 877 fathoms.

## Genus 228. TALISMANIA Goode &amp; Bean.

*Talismania* Goode & Bean, Oceanic Ichthyology, 41, 1896 (*homopterus*).

767. *Talismania antillarum* Goode & Bean.

Caribbean Sea.

*Talismania antillarum* Goode & Bean, Oceanic Ichthyology, 44, fig. 49, 1896, Albatross Station 2394, in Caribbean Sea, latitude 28° 38' 30" N., longitude 87° 2' W., in 420 fathoms.

768. *Talismania æquatoris* Goode & Bean.

Coast of Ecuador.

*Talismania æquatoris* Goode & Bean, Oceanic Ichthyology, 44, fig. 50, 1896, Albatross Station 2793, latitude 1° 3' N., longitude 80° 15' W., off coast of Ecuador, in 741 fathoms.

## Genus 229. CONOCARA Goode &amp; Bean.

*Conocara* Goode & Bean, Oceanic Ichthyology, 39, 1896 (*macdonaldi*).

769. *Conocara macdonaldi* Goode & Bean.

Gulf of Mexico, 24° 36' N., 84° 5' W.; 24° 36' N., 84° 5' W.; 28° 47' 30" N., 87° 27' W.

*Conocara macdonaldi* Goode & Bean, Oceanic Ichthyology, 39, fig. 48, 1896, Gulf of Mexico.

770. *Conocara macroptera* (Vaillant).

Morocco to Soudan, Banc d'Arguin, and the Canaries; latitude 16° 57' N., longitude 63° 12' W.

*Alepocephalus macropterus* Vaillant, Expéd. Sci. Travailleur et Talisman, Poissons, 150, pl. 11, figs. 2a, 2b, 2c, 1888, coast of Morocco, Soudan, and Canaries.

Genus 230. **PLATYTROCTES** Günther.

*Platytröctes* Günther, Ann. Mag. Nat. Hist., II, 1878, 249 (*apus*).

771. **Platytröctes apus** Günther.

Mid-Atlantic and the Arabian Sea.

*Platytröctes apus* Günther, Ann. Mag. Nat. Hist., II, 1878, 249, mid-Atlantic.

Genus 231. **ALEPOSOMUS** Gill.

*Aleposomus* Gill, Am. Nat., XVIII, 1884, 433 (*copei*).

772. **Aleposomus copei** Gill.

Gulf Stream.

*Aleposomus copei* Gill, Am. Nat., XVIII, 1884, 433, Gulf Stream, latitude 37° 12' 20" N., longitude 69° 39' W.

Family LXIV. **SALMONIDÆ**. The Salmon Family.

Genus 232. **COREGONUS** (Artedi) Linnaeus. *Whitefishes*.

*Coregonus* (Artedi) Linnaeus, Syst. Nat., ed. x, 310, 1758 (*lararetus*).

Subgenus **PROSOPIMUM** Milner.

*Prosopium* Milner, in Jordan, Man. Vert., ed. 2, 361, 1878 (*quadrilateralis*).

773. **Coregonus coulterii** Eigenmann & Eigenmann.

Headwaters of Columbia River in British Columbia.

*Coregonus coulterii* Eigenmann & Eigenmann, Am. Nat., November, 1892, 961, Kicking Horse River, at Field, British Columbia.

774. **Coregonus williamsoni** Girard. *Rocky Mountain Whitefish; Williamson's Whitefish; "Mountain Herring."*

Rocky Mountains to the Pacific, especially in the Columbia Basin and the headwaters of the Colorado; Chief Mountain Lake at the head of the Saskatchewan in Montana.

*Coregonus williamsoni* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 136, Des Chutes River, Oregon.

774a. **Coregonus williamsoni cismontanus** Jordan.

Madison and Yellowstone rivers and other tributaries of the upper Missouri.

*Coregonus williamsoni cismontanus* Jordan, Bull. U. S. Fish Com., IX, 1889, 49, pl. 9, figs. 8 and 9, Horsethief Creek, a tributary of Madison River, Montana.

775. **Coregonus kennicotti** Milner. *Broad Whitefish; Muksun of the Russians.*

Great Bear Lake; Mackenzie and Yukon rivers.

*Coregonus kennicotti* Milner, in Jordan & Gilbert, Synopsis, 298, 1883, Fort Good Hope, British America.

776. **Coregonus richardsonii** Günther.

Arctic North America.

*Coregonus richardsonii* Günther, Cat., VI, 185, 1866, Arctic North America; exact locality unknown.

777. **Coregonus quadrilateralis** Richardson. *Pilot-fish; Menominee Whitefish; Shadwaite; Round Whitefish.*

Lakes of New Hampshire, upper Great Lakes, northwestward to Alaska, as far south as Yukon River.

*Coregonus quadrilateralis* Richardson, Franklin's Jour. 1823, 714, Fort Enterprise, British America.

Subgenus **COREGONUS** (Artedi) Linnaeus.

778. **Coregonus clupeiformis** (Mitchill). *Common Whitefish.*

Great Lakes and neighboring waters

*Salmo clupeiformis* Mitchill, Am. Month. Mag., II, 1818, 321, Sault Ste. Marie.

779. **Coregonus nelsonii** Bean. *Humpback Whitefish.*

Alaska, from Bristol Bay northward.

*Coregonus nelsonii* Bean, Proc. U. S. Nat. Mus. 1884, 48, Nulato, Alaska.



*Sauvichthy 2 ns. Hubbs*

*Sauvichthy 2 ns. Hubbs  
Hager  
March 1910*

- 780. *Coregonus labradoricus* Richardson.** *Labrador Whitefish; Sault Whitefish; Shadwailer; Musquaw River Whitefish; Whiting of Lake Winnipiseogee.*  
Great Lakes region to the lakes of the Adirondacks and White Mountains, and northwest to Winnipeg.  
*Coregonus labradoricus* Richardson, Fauna Bor.-Amer., III, 206, 1836, Musquaw River, Labrador.

**Genus 233. ARGYROSOMUS Agassiz.** *The Lake Herrings.*

*Argyrosomus* Agassiz, Lake Superior, 339, 1850 (*clupeiformis* = *artedi*).

**Subgenus ARGYROSOMUS Agassiz.**

- 781. *Argyrosomus osmeriformis* (H. M. Smith).** *Smelt of the New York lakes.*  
Lakes of central New York; known from Seneca and Skaneateles lakes.  
*Coregonus osmeriformis* Hugh M. Smith, Bull. U. S. Fish Com., XIV, 1894, pl. 1, 2, Seneca Lake; Skaneateles Lake.
- 782. *Argyrosomus artedi* (LeSueur).** *Cisco; Lake Herring; Michigan Herring.*  
Great Lakes and neighboring waters, and northward into Labrador.  
*Coregonus artedi* LeSueur, Jour. Ac. Nat. Sci. Phila., I, 1818, 231, Lake Erie; Niagara River.
- 782a. *Argyrosomus artedi cisco* Jordan.**  
Small lakes of Wisconsin and northern Indiana.  
*Argyrosomus cisco* Jordan, Am. Nat. 1875, 136, Lake Tippecanoe, Warsaw, Ind.
- 783. *Argyrosomus hoyi* Gill.** *Moon-eye Cisco; Cisco of Lake Michigan; Kieye of Lake Michigan.*  
Deep waters of Lake Michigan.  
*Argyrosomus hoyi* Gill, in Jordan, Am. Nat., March, 1875, 135, Lake Michigan, near Racine, Wisconsin.
- 784. *Argyrosomus pusillus* (Bean).**  
Yukon River to Bering Sea and northward.  
*Coregonus pusillus* Bean, Proc. U. S. Nat. Mus. 1888, 526, Kuwuk River, Alaska.
- 785. *Argyrosomus lucidus* (Richardson).** *Great Bear Lake Herring.*  
Mackenzie River and tributaries; Great Bear Lake River.  
*Salmo (Coregonus) lucidus* Richardson, Fauna Bor.-Amer., III, 207, 1836, with good figure, Great Bear Lake.
- 786. *Argyrosomus laurettæ* (Bean).**  
Alaska, from Yukon River northward to Point Barrow.  
*Coregonus lauretta* Bean, Proc. U. S. Nat. Mus. 1881, 156, Point Barrow, Alaska.
- 787. *Argyrosomus prognathus* (H. M. Smith).** *Long-jaw; Bloater.*  
Lake Ontario, Lake Michigan, Lake Superior, and doubtless the entire Great Lake basin.  
*Coregonus prognathus* Hugh M. Smith, Bull. U. S. Fish Com., XIV, 1894, 4, pl. 1, fig. 3, Lake Ontario, at Wilson, N. Y.
- 788. *Argyrosomus nigripinnis* Gill.** *Blue-fin; Black-fin.*  
Deep waters of Lake Michigan and small lakes of Wisconsin and Minnesota.  
*Argyrosomus nigripinnis* Gill, in Milner, Rept. U. S. Fish. Com. 1872-73 (1874), 87, Lake Michigan, off Racine, Wisconsin.
- Subgenus ALLOSOMUS Jordan.**  
*Allosomus* Jordan, Man. Vert., ed. 2, 361, 1878 (*tullibee*).
- 789. *Argyrosomus tullibee* (Richardson).** *Tullibee; Mongrel Whitefish.*  
Great Lakes, Lake of the Woods, and northward.  
*Salmo (Coregonus) tullibee* Richardson, Fauna Bor.-Amer., III, 201, 1836, Cumberland House, Pine Island Lake.
- 789a. *Argyrosomus tullibee bisselli* (Bollman).**  
Rawson Lake and Howard Lake, Michigan.  
*Coregonus tullibee bisselli* Bollman, Rept. U. S. Fish Com., VII, 1888, 223, Rawson and Howard lakes, Michigan.



Genus 234. **STENODUS** Richardson. *Inconnu.*

*Stenodus* Richardson, Back's Narrative Arctic Land Expedition, 521, 1836 (*mackenzii*).

790. *Stenodus mackenzii* (Richardson). *Inconnu.*

Delta of Mackenzie River.

*Salmo mackenzii* Richardson, Franklin's Jour. 1823, 707, Mackenzie River.

Genus 235. **ONCORHYNCHUS** Suckley. *The Pacific Salmons.*

*Oncorhynchus* Suckley, Ann. Lyc. Nat. Hist. N.Y. 1861, 312 (*scoouleri*=*gorbuscha*).

Subgenus **ONCORHYNCHUS** Suckley.

791. *Oncorhynchus gorbuscha* (Walbaum). *Humpback Salmon; Haddo; Holia; Gorbuscha; Dog Salmon of Alaska.*

Pacific Coast and rivers of North America and Asia from Oregon northward.

*Salmo gorbuscha* Walbaum, Artedi Pisc., 69, 1792, Kamchatka; after the *Gorbuscha* of Pennant and Krasheninnikof.

792. *Oncorhynchus keta* (Walbaum). *Dog Salmon; Hay-ko; Le Kai Salmon.*

San Francisco to Kamchatka; abundant in Bering Straits.

*Salmo keta* vel *Kayko* Walbaum, Artedi Pisc., 72, 1792, rivers of Kamchatka; after the *Keta* or *Kayko* of Pennant and Krasheninnikof.

793. *Oncorhynchus tshawytscha* (Walbaum). *Quinnat Salmon; Chinook Salmon; Tsharitcha; King Salmon; Columbia Salmon; Sacramento Salmon; Tyes Salmon; Saw-kwey; Chouicha or Tshawytscha.*

Alaska, Oregon, and California, southward to Ventura River and to northern China.

*Salmo tshawytscha* Walbaum, Artedi Pisc., 71, 1792, rivers of Kamchatka; after the *Tshawytscha* of Krasheninnikof, Hist. Kamchatka, 178, 1764, and the *Tshawytscha* of Pennant, 1792.

794. *Oncorhynchus kisutch* (Walbaum). *Silver Salmon; Kisutch; Skowitz; Hoopid Salmon; Coho Salmon; Bielaya Ryba; Quisutsch.*

From San Francisco northward, especially in Puget Sound and the Alaskan fjords; south on the Asiatic coast to Japan.

*Salmo kisutch* Walbaum, Artedi Pisc., 70, 1792, rivers and lakes of Kamchatka; after the *Kisutch* of Pennant.

Subgenus **HYPISIFARIO** Gill.

*Hypsifario* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 330 (*kennerlyi* = *nerka*).

795. *Oncorhynchus nerka* (Walbaum). *Blueback Salmon; Redfish; Fraser River Salmon; Saw-qui, Sockeye, or Sauk-eye Salmon; Krasnaya Ryba.*

Klamath River and Rogue River to northern Alaska, Kamchatka, and Japan.

*Salmo nerka* Walbaum, Artedi, Pisc., 71, 1792, rivers and seas of Kamchatka; after the *Nerka* of Pennant, the *Narka* of Krasheninnikof.

Genus 236. **SALMO** (Artedi) Linnæus. *Salmons and Trouts.*

*Salmo* (Artedi, Gen. Piscium) Linnæus, Syst. Nat., ed. x, 308, 1758 (*salar*, etc.).

Subgenus **SALMO** (Artedi) Linnæus.

796. *Salmo salar* Linnæus. *Common Atlantic Salmon.*

North Atlantic, ascending all suitable rivers in northern Europe and region north of Cape Cod to Hudson Bay; formerly abundant in the Hudson and occasional in the Delaware, its northern limit in the Churchill, Albany, and Moose rivers, flowing into Hudson Bay.

*Salmo salar* Linnæus, Syst. Nat., ed. x, 308, 1758, seas of Europe.

796a. *Salmo salar sebago* Girard. *Landlocked Salmon.*

Lakes of Maine, New Hampshire, and New Brunswick.

*Salmo sebago* Girard, Proc. Ac. Nat. Sci. Phila. 1853, 380, Sebago Pond, N. H.

796b. *Salmo salar ouananiche* McCarthy. *Ouananiche; Wannaniche; Winninich.*

Lake St. John, Saguenay River, and northward.

*Salmo salar ouananiche* Eugene McCarthy, in Jordan & Evermann, Fishes North and Middle America, 487, 1896, Saguenay River, Canada.



Mykiss. Rivers of Kamtchatka. only.

Salmo clarkii. American form.  
not found above Kodiak.

Subgenus *TRUTTA* Linnaeus.

*Trutta* Linnaeus, Syst. Nat., ed. x, 308, 1758 (*trutta*, etc.: "*Trutta corpore variegato*").

- 797. *Salmo mykiss* Walbaum.** *Cut-throat Trout; Mykiss.* *River of Kamchatka.*  
Lower Columbia to British America, Alaska, and Kamchatka.  
*Salmo mykiss* Walbaum, Artedi Pisc., 59, 1792, Kamchatka; based on *Mykiss* of Pennant.
- 797a. *Salmo mykiss clarkii* (Richardson).** *Columbia River Trout.*  
Puget Sound to Elk River, Humboldt County, California.  
*Salmo clarkii* Richardson, Fauna Bor.-Amer., III, 225, 1836, Cathlapootl River.
- 797b. *Salmo mykiss lewisi* (Girard).** *Yellowstone Trout; Cut-throat Trout.*  
Snake River basin above the Shoshone Falls, through Two-Ocean Pass to the headwaters of the Yellowstone and other affluents of the upper Missouri; Yellowstone Lake.  
*Salar lewisi* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 219, Falls of Missouri River.
- 797c. *Salmo mykiss gibbsii* (Suckley).**  
Middle Columbia River basin.  
*Salmo gibbsii* Suckley, Ann. Lyc. Nat. Hist. N.Y., VII, 1858, 1, Fort Dalles, Oregon.
- 797d. *Salmo mykiss henshawi* (Gill & Jordan).** *Lake Tahoe Trout; Silver Trout; Truckee Trout.*  
Basin of the post-Tertiary Lake Lahontan; Lake Tahoe, Pyramid Lake, Webber Lake, Donner Lake, Independence Lake, Truckee River, Humboldt River, Carson River, and most streams of the eastern slope of the Sierra Nevada; also the headwaters of Feather River, west of the Sierra Nevada, probably introduced from Nevada.  
*Salmo henshawi* Gill & Jordan, in Jordan, Man. Vert., ed. 2, 358, 1878, Lake Tahoe.
- 797e. *Salmo mykiss virginalis* (Girard).** *Trout of Utah Lake.*  
Lakes and streams west of the Wasatch range, especially in Bear, Provo, Jordan, and Sevier rivers, and in Utah Lake.  
*Salar virginalis* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 220, Utah Lake.
- 797f. *Salmo mykiss spilurus* (Cope).** *Rio Grande Trout.*  
Upper Rio Grande and southward into the mountains of Chihuahua.  
*Salmo spilurus* Cope, Hayden's Geol. Surv. Mont. for 1871 (1872), 470, Sangre de Cristo Pass, Colorado.
- 797g. *Salmo mykiss pleuriticus* (Cope).** *Colorado River Trout.*  
Colorado River basin.  
*Salmo pleuriticus* Cope, Hayden's Geol. Surv. Mont. for 1871 (1872), 471, headwaters of Green River, Wyoming.
- 797h. *Salmo mykiss bouvieri* (Bendire).** *Waha Lake Trout.*  
Waha Lake, Washington.  
*Salmo purpuratus bouvieri* Bendire, in Jordan & Gilbert, Synopsis, 315, 1883, Waha Lake, Washington.
- 797i. *Salmo mykiss stomias* (Cope).** *Greenback Trout.*  
Headwaters of Arkansas and Platte rivers.  
*Salmo stomias* Cope, Hayden's Geol. Surv. Wyo. for 1870 (1871), 433, South Platte River, locality unknown.
- 797j. *Salmo mykiss macdonaldi* Jordan & Evermann.** *Yellow-fin Trout.*  
Twin Lakes, tributary to the Arkansas River, near Leadville, Colorado.  
*Salmo mykiss macdonaldi* Jordan & Evermann, Proc. U. S. Nat. Mus. 1889 (1890), 453, Twin Lakes, Colorado.
- 798. *Salmo gairdneri* Richardson.** *Steelhead; Hardhead; "Salmon Trout."*  
Coastwise streams from Santa Ynez Mountains, Santa Barbara County, northward to British Columbia, west of the Sierra Nevada and Cascade Range; especially abundant in the lower Columbia, ascending Snake River as far as Auger Falls and headwaters of Salmon River, Idaho.  
*Salmo gairdneri* Richardson, Fauna Bor.-Amer., III, 221, 1836, Columbia River at Fort Vancouver, Washington.

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- 798a. *Salmo gairdneri kamloops* (Jordan). *Kamloops Trout; Stit-tse.***  
 Kamloops Lake, Okanogan Lake, Kootenai Lake, and other lakes tributary to Fraser River or to the upper Columbia.  
*Oncorhynchus kamloops* Jordan, Forest and Stream, xxxix, No. 19, November 10, 1892, 405, Kamloops Lake, British Columbia.
- 798b. *Salmo gairdneri crescentis* Jordan & Beardslee. *Speckled Trout of Crescent Lake.***  
 Crescent Lake, Clallam County, Washington.  
*Salmo gairdneri crescentis* Jordan & Beardslee, Proc. Cal. Ac. Sci. 1896, 207, pl. 22, Crescent Lake, Clallam County, Washington.
- 798c. *Salmo gairdneri beardsleei* Jordan & Seale. *Blueback Trout of Crescent Lake.***  
 Crescent Lake, Clallam County, Washington.  
*Salmo gairdneri beardsleei* Jordan & Seale, Proc. Cal. Ac. Sci. 1896, 209, pl. 23, Crescent Lake, Clallam County, Washington.
- 799. *Salmo irideus* Gibbons. *Rainbow Trout; Coast Range Trout.***  
 Mountain streams from the coast of Washington southward to San Diego County, California.  
*Salmo irideus* Gibbons, Proc. Cal. Ac. Nat. Sci. 1855, 36, San Leandro Creek, Alameda County, California.
- 799a. *Salmo irideus masoni* (Suckley). *Brook Trout of western Oregon.***  
 Puget Sound to southern Oregon, in streams of the Coast Range.  
*Salmo masoni* Suckley, Pac. R. R. Surv., xii, part 2, 345, 1860, Cathlapootl River.
- 799b. *Salmo irideus shasta* (Jordan). *McCloud River Rainbow Trout.***  
 Streams of the Sierra Nevada from Mount Shasta southward; known from McCloud River, the limits of its range not well known. Introduced into the Truckee River and many eastern streams.  
*Salmo gairdneri shasta* Jordan, 13th Bien. Rept. Fish Com. California, 1894, 142, with plate, McCloud River at Baird, Shasta County, California.
- 799c. *Salmo irideus gilberti* (Jordan). *Kern River Trout.***  
 Kern River, California.  
*Salmo gairdneri gilberti* Jordan, 13th Bien. Rept. Fish Com. California, 1894, 143, with plate, South Fork of Kern River at Soda Springs, California.
- 799d. *Salmo irideus stonei* (Jordan). *Nissuee Trout; No-shee Trout.***  
 McCloud River and upper Sacramento River.  
*Salmo gairdneri stonei* Jordan, 13th Bien. Rept. Fish Com. California, 1894, 142, with plate, McCloud River at Baird, California.
- 799e. *Salmo irideus aqua-bonita* (Jordan). *Golden Trout of Mount Whitney.***  
 Mountain streams on the west side of Mount Whitney, tributary to Kern River, Volcano Creek, and South Fork of Kern River; also Owens Lake.  
*Salmo mykiss aqua-bonita* Jordan, Proc. U. S. Nat. Mus. 1892, 481, Volcano or Whitney Creek, California.
- Genus 237. CRISTIVOMER Gill & Jordan. *Great Lakes Trout.***  
*Cristivomer* Gill & Jordan, in Jordan, Man. Vert. E. U. S., ed. 2, 356, 1878 (*namaycush*).
- 800. *Cristivomer namaycush* (Walbaum). *Great Lakes Trout; Mackinac Trout, Longe (Vermont); Togue (Maine); Namaycush; Masamacush.***  
 Great Lakes region and lakes of northern New York, New Hampshire, and Maine, headwaters of Columbia and Fraser rivers, streams of Vancouver Island, and north to the Arctic Circle.  
*Salmo namaycush* Walbaum, Artedi Pisc., 68, 1792, Hudson Bay; based on the *Namaycush salmon* of Pennant.
- 800a. *Cristivomer namaycush siscowet* (Agassiz). *Siscowet.***  
 Lake Superior.  
*Salmo siscowet* Agassiz, Lake Superior, 333, 1850, Lake Superior.

Hucho { hucho ~~hau~~ <sup>hau</sup> <sup>hau</sup>  
tāimen Sibiria  
perryi Japan.

Salvelinus Kundaeha Fallas.  
Rivers & shores of Kamchatka,

var

Salv. malma

parkii.

Columbia & Sacramento  
Rivers.

**Genus 238. SALVELINUS (Nilsson). Charrs.***Salvelinus* Nilsson, Prodr. Scand., 7, 1832 (*alpinus*).**801. *Salvelinus fontinalis* (Mitchill). Brook Trout; Speckled Trout.**

Maine to the Saskatchewan and northward to Labrador, southward in the Alleghanies to headwaters of the Savannah, Chattahoochee, Catawba, and French Broad rivers.

*Salmo fontinalis* Mitchill, Trans. Lit. Phil. Soc. N. Y., 1, 1815, 435, near New York City.**801a. *Salvelinus fontinalis agassizii* (Garman). Dublin Pond Trout.**

New Hampshire.

*Salmo agassizii* Garman, 19th Rept. Mass. Fish Com. 1885, 20, Dublin Pond (Lake Monadnock), Keene, N. H.; Center Pond, New Hampshire.**802. *Salvelinus malma* (Walbaum). Dolly Varden Trout; Oregon Charr; Bull Trout; Red-spotted Trout; Malma; Golet.**

Streams west of the Cascade Range, from the upper Sacramento to Montana, Alaska, and Kamchatka; in the Columbia basin as far up as Montana and Idaho.

*Salmo malma* Walbaum, *Arted. Pisc.*, 66, 1792, <sup>Kamchatka</sup> Bering Sea; based on *Malma* of Pennant. *Golet of St. Lawrence & Nova-Hibernia*.**803. *Salvelinus alpinus* (Linnæus). European Charr; Sälbling; Saibling; Ombre Chevalier; Greenland Charr.**

Central and northern Europe and northeastern America.

*Salmo alpinus* Linnæus, Syst. Nat., ed. x, 309, 1758, Lapland, West Gothland, etc.**803a. *Salvelinus alpinus alipes* (Richardson). Long-finned Charr.**

Lakes of Greenland and Boothia Felix.

*Salmo alipes* Richardson, Nat. Hist. App. Ross's Voy., LVII, and Fauna Bor.-Amer., III, 169, 1836, lakes about Regent Inlet; Boothia Felix.**803b. *Salvelinus alpinus stagnalis* (Fabricius). Greenland Charr.**

Waters of Greenland, Boothia, and neighboring regions.

*Salmo stagnalis* Fabricius, Fauna Grœulandica, 175, 1780, alpine ponds of Greenland; not migratory.**803c. *Salvelinus alpinus arcturus* (Günther).**

Victoria Lake and Flœberg Beach, Arctic America, latitude 82° 34'.

*Salmo arcturus* Günther, Proc. Zool. Soc. Lond. 1877, 294, pl. 5, Victoria Lake and Flœberg Beach, Arctic America.**803d. *Salvelinus alpinus aureolus* (Bean). Golden Trout of Sunapee Lake.**

Sunapee Lake, New Hampshire; Dan Hole Pond, Carroll County, New Hampshire, tributary to Saco River; and Floods Pond, Ellsworth, Maine, tributary to Union River.

*Salvelinus aureolus* Bean, Proc. U. S. Nat. Mus. 1887, 628, Sunapee Lake, New Hampshire.**804. *Salvelinus oquassa* (Girard). Oquassa Trout; Blueback Trout; Quasky.**

Rangeley Lakes, western Maine.

*Salmo oquassa* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 262, Oquassa Lake, Maine.**804a. *Salvelinus oquassa naresi* (Günther).**

Lakes of Arctic America, Discovery Bay, and Cumberland Gulf.

*Salmo naresi* Günther, Proc. Zool. Soc. Lond. 1877, 476, plate, fresh-water lakes near Discovery Bay.**804b. *Salvelinus oquassa marstoni* (Garman). Lac de Marbre Trout.**

Lac de Marbre, Ottawa County, Province of Quebec, Canada.

*Salmo marstoni* Garman, Science, July 14, 1893, 23, Lac de Marbre, Ottawa County, Quebec.



## Family LXV. THYMALLIDÆ. The Graylings.

## Genus 239. THYMALLUS Cuvier.

*Thymallus* Cuvier, Règne Anim., ed. 2, II, 306, 1829 (*thymallus*), (not *Thymalus* Latreille, 1802, a genus of *Coleoptera*).

805. *Thymallus signifer* (Richardson). *Arctic Grayling*; *Poisson Bleu*.

Mackenzie River to Alaska and the Arctic Ocean.

*Coregonus signifer* Richardson, Franklin's Jour. 1823, 711, Winter Lake near Fort Enterprise, British America.

806. *Thymallus ontariensis* Cuvier & Valenciennes. *Michigan Grayling*.

Streams of northern Michigan; formerly abundant in Au Sable River, Jordan River, and other streams in the southern peninsula; Otter Creek, near Keweenaw, in the northern peninsula.

*Thymallus ontariensis* Cuvier & Valenciennes, Hist. Nat. Poiss., XXI, 452, 1848, said to have been brought by Milbert from Lake Ontario.

806a. *Thymallus ontariensis montanus* Milner. *Montana Grayling*.

Madison and Gallatin rivers, Montana.

*Thymallus montanus* Milner, Rept. U. S. Fish Com. 1872-73 (1874), 741, tributary of Missouri River at Camp Baker, Montana.

## Family LXVI. ARGENTINIDÆ. The Smelts.

Genus 240. MALLOTUS Cuvier. *Capelins*.

*Mallotus* Cuvier, Règne Anim., ed. 2, II, 305, 1829 (*villosa*).

807. *Mallotus villosus* (Müller). *Capelin*; *Lodde*.

Arctic America, south to Cape Cod and Alaska; Kamchatka.

*Clupea villosa* Müller, Prodr. Zool. Dan., 245, 1777, Greenland.

Genus 241. THALEICHTHYS Girard. *Eulachon*.

*Thaleichthys* Girard, U. S. Pac. R. R. Surv., Fishes, 325, 1858 (*sterensi* = *pacificus*).

808. *Thaleichthys pacificus* (Richardson). *Eulachon*; *Candle-fish*; *Oolachan*.

Oregon to Alaska.

*Salmo* (*Mallotus*) *pacificus* Richardson, Fauna Bor.-Amer., III, 226, 1836, Columbia River.

## Genus 242. OSMERUS (Artedi) Linnæus.

*Osmerus* (Artedi) Linnæus, Syst. Nat., ed. x, 310, 1758 (*eperlanus*).

## Subgenus SPIRINCHUS Jordan &amp; Evermann.

*Spirinchus* Jordan & Evermann, Fishes North and Middle America, 522, 1896 (*thaleichthys*).

809. *Osmerus thaleichthys* Ayres.

Pacific Coast from San Francisco northward to Bristol Bay in Alaska.

*Osmerus thaleichthys* Ayres, Proc. Cal. Ac. Sci. 1860, 62, San Francisco.

810. *Osmerus attenuatus* Lockington.

California from San Francisco northward.

*Osmerus attenuatus* Lockington, Proc. U. S. Nat. Mus. 1890, 66, San Francisco.

## Subgenus OSMERUS (Artedi) Linnæus.

811. *Osmerus mordax* (Mitchill). *American Smelt*; *Ice-fish*.

Atlantic Coast of United States from Virginia northward to Gulf of St. Lawrence; Lakes Champlain and Memphremagog.

*Atherina mordax* Mitchill, Trans. Lit. Phil. Soc. N. Y., I, 1815, 446, New York.

811a. *Osmerus mordax spectrum* (Cope). *Wilton Smelt*.

Landlocked in Wilton Pond, Kennebec County, Maine.

*Osmerus spectrum* Cope, Proc. Am. Phil. Soc. Phila. 1870, 490, Wilton Pond, Kennebec County, Maine.

~~Salmo~~chymus Berg for ~~Brachymyox~~  
Thymallus<sup>obtusulus</sup>  
subq. articu. include, curr.  
Phylogeophya brevistius or altaica  
1907.

very doubtful,

*Ornithopus albatrossis*,  
Karltun.

new genus?

*Therobromus*

**811b. *Osmerus mordax abbotti* (Cope). *Cobessicontic Smelt*.**

Landlocked in Cobessicontic Lake, Kennebec County, Maine.

*Osmerus abbotti* Cope, Proc. Am. Phil. Soc. Phila. 1870, 490, Cobessicontic Lake, Maine.**812. *Osmerus dentex* Steindachner. *Rainbow Herring*.**

Coast of Alaska and south on the Pacific Coast to northern China.

*Osmerus dentex* Steindachner, Sitzungsab. Kais. Akad. Wiss. Wien, LXI, 1870, 429, northern China.**Genus 243. *HYPOMESUS* Gill. *Surf Smelts*.***Hypomesus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 168 (*pretiosa*).**813. *Hypomesus pretiosus* (Girard). *Surf Smelt*.**

Coast of California and Oregon, from Monterey northward.

*Argentina pretiosa* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 155, San Francisco.**814. *Hypomesus olidus* (Pallas). *Pond Smelt*.**

Alaska and Kamchatka.

*Salmo (Osmerus) olidus* Pallas, Zoogr. Rosso-Asiat., III, 391, 1811, lakes and rivers of Kamchatka.**Genus 244. *ARGENTINA* (Artedi) Linnæus. *Argentines*.***Argentina* (Artedi) Linnæus, Syst. Nat., ed. x, 315, 1758 (*sphyræna*).**815. *Argentina silus* Ascanius.**

Northern Europe; occasionally taken on the Grand Banks and off the coast of Maine.

*Argentina silus* Ascanius, Icon. Rev. Nat., pl. 3, 3, 24, 1763, Norway.**816. *Argentina sialis* Gilbert. *new genus?***

Coast of California.

*Argentina sialis* Gilbert, Proc. U. S. Nat. Mus. 1890, 56, coast of California at Albatross Station 3017, in 58 fathoms.**817. *Argentina striata* Goode & Bean.**

Gulf of Mexico.

*Argentina striata* Goode & Bean, Oceanic Ichthyology, 52, fig. 62, 1896, Gulf of Mexico, in latitude 28° 36' N., longitude 85° 33' 30'' W.**Genus 245. *LEUROGLOSSUS* Gilbert.***Leuroglossus* Gilbert, Proc. U. S. Nat. Mus. 1890, 57 (*stilbius*).**818. *Leuroglossus stilbius* Gilbert.**

Coast of California.

*Leuroglossus stilbius* Gilbert, Proc. U. S. Nat. Mus. 1890, 57, Coast of California at Albatross Stations 2997 and 2998, in 221 and 40 fathoms.**Family LXVII. MICROSTOMIDÆ.****Genus 246. *NANSENIA* Jordan & Evermann.***Nansenia* Jordan & Evermann, Fishes North and Middle America, 528, 1896 (*grænlandica*).**819. *Nansenia grænlandica* (Reinhardt).**

Greenland.

*Microstomus grænlandicus* Reinhardt, Vidensk. Selsk. Naturv. Math. Afhandl., VIII, 1841, LXXIV, Greenland.**Genus 247. *BATHYLAGUS* Günther.***Bathylagus* Günther, Ann. Mag. Nat. Hist., II, 1878, 248 (*atlanticus*).**820. *Bathylagus benedicti* Goode & Bean.**

Gulf Stream.

*Bathylagus benedicti* Goode & Bean, Oceanic Ichthyology, 55, fig. 64, 1896, Gulf Stream, at Albatross Stations 2094, 2711, and 2572.

**821. *Bathylagus euryops* Goode & Bean.**

Gulf Stream.

*Bathylagus euryops* Goode & Bean, Oceanic Ichthyology, 55, fig. 63, 1896, Gulf Stream, in about latitude 40° N., and longitude 70° W.

**822. *Bathylagus pacificus* Gilbert.**

Coast of Washington, in deep water.

*Bathylagus pacificus* Gilbert, Proc. U. S. Nat. Mus. 1890, 55, off Washington, at Albatross Stations 3071 and 3074, in 685 and 877 fathoms.

**823. *Bathylagus borealis* Gilbert.**

Coast of Alaska, in deep water.

*Bathylagus borealis* Gilbert, Proc. Rept. U. S. Fish Com. 1893 (1896), 492, north of Aleutian Island at Albatross Station 3027, in 322 fathoms.

**Order T. INIOMI. The Lantern-Fishes.**

**Family LXVIII. SYNODONTIDÆ. The Lizard-Fishes.**

**Genus 248. TRACHINOCEPHALUS Gill.**

*Trachinocephalus* Gill, Cat. Fish. East Coast N. Amer., 53, 1861 (*myops*).

**824. *Trachinocephalus myops* (Forster). Ground Spearing; Lagarto.**

Tropical parts of the western Atlantic, West Indies, and Brazil, and ranging on our Atlantic Coast to South Carolina.

*Salmo myops* Forster, in Bloch & Schneider, Syst. Ichth., 421, 1801, St. Helena.

**Genus 249. SYNODUS (Gronow) Bloch & Schneider. Lizard-fishes.**

*Synodus* (Gronow) Bloch & Schneider, Syst. Ichth., 396, 1801 (*synodus*).

**825. *Synodus intermedius* (Agassiz). Sand-diver.**

Coast of southern Florida to Brazil.

*Saurus intermedius* Agassiz, Spix, Desc. Brasil., 81, 1828, Brazil.

**826. *Synodus evermanni* Jordan & Bollman.**

Mazatlan to coast of Colombia.

*Synodus evermanni* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 152, Pacific Ocean off coast of Colombia, at Albatross Stations 2795 and 2797, in 33 fathoms.

**827. *Synodus poeyi* Jordan.**

Cuba.

*Synodus poeyi* Jordan, Proc. U. S. Nat. Mus. 1886, 526, Havana, Cuba.

**828. *Synodus synodus* (Linnaeus).**

Bahia, Brazil.

*Esor synodus* Linnaeus, Syst. Nat., ed. XII, 516, 1766, America; based on *Synodus* of Gronow.

**829. *Synodus lacertinus* Gilbert.**

Acapulco, Mexico.

*Synodus lacertinus* Gilbert, Proc. U. S. Nat. Mus. 1890, 55, Acapulco, Mexico.

**830. *Synodus saurus* (Linnaeus). Tiru; Tanutola; Lacerto.**

Coast of southern Europe and neighboring islands; Bermudas

*Salmo saurus* Linnaeus, Syst. Nat., ed. XII, 511, 1766, Mediterranean; after Artedi.

**831. *Synodus scituliceps* Jordan & Gilbert.**

Pacific Coast of America from Cape San Lucas to Panama.

*Synodus scituliceps* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 344, Mazatlan, Mexico.

Bathylagus ~~occipitalis~~<sup>occidentalis</sup> Gilbert  
milleri  
Off San Diego

248  
normalis

Synodus luniscus  
Forster 1911  
D. dermatogyps  
Jan. 1911  
Hawaii

2 S. salutaris

**832. *Synodus jenkinsi* Jordan & Bollman.**

Gulf of California to Galapagos Islands.

*Synodus jenkinsi* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889. 153, off coast of Colombia, Galapagos Islands, at Albatross Stations 2797 and 2802, in 33 and 16 fathoms.**833. *Synodus foetens* (Linnæus). *Lizard-fish*; *Lagarto*; *Soap-fish*.**

Cape Cod to Brazil; common from South Carolina southward.

*Salmo foetens* Linnæus, Syst. Nat., ed. xii, 513, 1766, South Carolina.**834. *Synodus lucioceph* (Ayres).**

Coast of California from San Francisco to Santa Barbara.

*Saurus lucioceph* Ayres, Proc. Cal. Ac. Sci. 1855, 66, San Francisco.**Genus 250. BATHYSAURUS Günther.***Bathysaurus* Günther, Ann. Mag. Nat. Hist., August, 1878, 181 (*ferox*).**835. *Bathysaurus ferox* Günther.**

Atlantic and South Pacific; known from off New Zealand, Morocco, and the Gulf Stream.

*Bathysaurus ferox* Günther, Ann. Mag. Nat. Hist. 1878, 182, east coast of New Zealand.**Genus 251. BATHYLACO Goode & Bean.***Bathylaco* Goode & Bean, Oceanic Ichthyology, 57, 1896 (*nigricans*).**836. *Bathylaco nigricans* Goode & Bean.**

Gulf of Mexico off Santa Cruz, in deep water.

*Bathylaco nigricans* Goode & Bean, Oceanic Ichthyology, 57, fig. 69, 1896, off Santa Cruz, Mexico, in 2,393 fathoms.**Family LXIX. AULOPIDÆ.****Genus 252. CHLOROPHTHALMUS Bonaparte.***Chlorophthalmus* Bonaparte, Fauna Italica, fasci. xxviii, Pesci, 1840 (*agassizii*).**837. *Chlorophthalmus agassizii* Bonaparte.**

Atlantic and Mediterranean, rare about Naples and Sicily; eastern Atlantic, Azores, Sargasso Sea, and Cape Verde.

*Chlorophthalmus agassizii* Bonaparte, Fauna Italica, pl. 121, 1840, Italy.**838. *Chlorophthalmus chalybeius* (Goode).**

Gulf Stream, in from 85 to 167 fathoms.

*Hyphalonedrus chalybeius* Goode, Proc. U. S. Nat. Mus., iii, 1881, 484, Gulf Stream, off Rhode Island, at Fish Hawk Stations 876 and 878, in 120 and 142 fathoms.**839. *Chlorophthalmus truculentus* Goode & Bean.**

Off Barbados.

*Chlorophthalmus truculentus* Goode & Bean, Oceanic Ichthyology, 61, fig. 72, 1896, off Barbados, in 158 fathoms.**Family LXX. BENTHOSAURIDÆ.****Genus 253. BENTHOSAURUS Goode & Bean.***Benthosaurus* Goode & Bean, Bull. Mus. Comp. Zool., xii, No. 5, 165, 1886 (*grallator*).**840. *Benthosaurus grallator* Goode & Bean.**

Gulf of Mexico and Gulf Stream, in latitude 24° 33' N., longitude 84° 23' W.; latitude 39° 3' 15' N., longitude 70° 50' 45' W.

*Benthosaurus grallator* Goode & Bean, Bull. Mus. Comp. Zool., xii, No. 5, 168, 1886, Gulf Stream.



## Family LXXI. BATHYPTEROIDÆ.

## Genus 254. BATHYPTEROIS Günther.

*Bathypterois* Günther, Ann. Mag. Nat. Hist., 5th series, II, 1878, 183 (*longifilis*).

## Subgenus SYNAPTERETMUS Goode &amp; Bean.

*Synapteretmus* Goode & Bean, Oceanic Ichthyology, 64, 1896 (*quadrifilis*).

841. *Bathypterois quadrifilis* Günther.

Brazil; St. Vincent.

*Bathypterois quadrifilis* Günther, Ann. Mag. Nat. Hist., II, 1878, 184, off coast of Brazil, in 500 to 770 fathoms.

842. *Bathypterois longipes* Günther.

East coast of South America.

*Bathypterois longipes* Günther, Ann. Mag. Nat. Hist., II, 1878, 184, east coast of South America, in 2,650 fathoms.

## Family LXXII. IPNOPIDÆ.

## Genus 255. IPNOPS Günther.

*Ipnops* Günther, Ann. Mag. Nat. Hist., II, 1878, 187 (*murrayi*).

843. *Ipnops murrayi* Günther.

Coast of Brazil, Tristan da Cunha, Celebes, and in tropical America (24° 36' N., 84° W.), and off Bequia.

*Ipnops murrayi* Günther, Ann. Mag. Nat. Hist., II, 1878, 187, coast of Brazil, etc.

## Family LXXIII. RONDELETIIDÆ.

## Genus 256. RONDELETIA Goode &amp; Bean.

*Rondeletia* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 454 (*bicolor*), and in Oceanic Ichthyology, 68, 1896.

844. *Rondeletia bicolor* Goode & Bean.

Gulf Stream.

*Rondeletia bicolor* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 454, pl. 17, fig. 7, and in Oceanic Ichthyology, 68, fig. 77, 1896, at Albatross Station 2724, in 1,641 fathoms.

## Family LXXIV. CETOMIMIDÆ.

## Genus 257. CETOMIMUS Goode &amp; Bean.

*Cetomimus* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 452 (*gillii*), and in Oceanic Ichthyology, 68, 1896.

845. *Cetomimus gillii* Goode & Bean.

Gulf Stream.

*Cetomimus gillii* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 452, pl. 17, fig. 2, and in Oceanic Ichthyology, 69, fig. 78, 1896, Gulf Stream, in latitude 39° 35' N., longitude 71° 24' 30" W.

846. *Cetomimus storeri* Goode & Bean.

Gulf Stream.

*Cetomimus storeri* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 453, pl. 17, fig. 3, and in Oceanic Ichthyology, 69, fig. 79, 1896, Gulf Stream at Albatross Station 2222, in 1,535 fathoms.

## Family LXXV. MYCTOPHIDÆ. The Lantern-Fishes.

## Genus 258. MACROSTOMA Risso.

*Macrostoma* Risso, Europ. Mérid., III, 447, 1826 (*angustidens*): (not *Macrostomus* Wied, 1817, a genus of insects).

847. *Macrostoma quercinum* (Goode & Bean).

Western Atlantic and Mediterranean.

*Notoscopelus quercinus* Goode & Bean, Oceanic Ichthyology, 83, fig. 97, 1896, Grand Banks.



*Macrodonta brachycephala* Eydoux  
Cuvier & Blanchard.

**848. *Macrostoma margaritiferum* (Goode & Bean).**

Grand Banks of Newfoundland.

*Notoscopelus margaritiferus* Goode & Bean, Oceanic Ichthyology, 84, fig. 98, 1896, off Banquero.**849. *Macrostoma angustidens* Risso. *Prick-fish*; *Maire d'Amplora*.**

Atlantic and Indian oceans, Norway and Greenland.

*Macrostomus angustidens* Risso, Europ. Mérid., III, 448, 1826, Nice.**850. *Macrostoma castaneum* (Goode & Bean).**

Grand Banks.

*Notoscopelus castaneus* Goode & Bean, Oceanic Ichthyology, 84, fig. 95, 1896, Grand Banks.**851. *Macrostoma caudispinosum* (Johnson).**

Atlantic Ocean.

*Scopelus caudispinosus* Johnson, Proc. Zool. Soc. Lond. 1863, 42, Madeira.**Genus 259. CERATOSCOPELUS Günther.***Ceratoscopelus* Günther, Cat., v, 405 and 412, 1864 (*madeirensis*).**852. *Ceratoscopelus madeirensis* (Lowe).**

Atlantic and Mediterranean; west to the Grand Banks.

*Scopelus madeirensis* Lowe, Proc. Zool. Soc. Lond. 1839, 87, Madeira.**Genus 260. LAMPANYCTUS Bonaparte.***Lampanyctus* Bonaparte, Fauna Italica, fasc. xxvii, 1840 (*crocodilus*).**853. *Lampanyctus crocodilus* (Risso).**

Atlantic and Mediterranean; west to 40° W., 33° N.

*Gasteropelecus crocodilus* Risso, Ichth. Nice, 357, 1810, Nice.**854. *Lampanyctus townsendi* (Eigenmann & Eigenmann).**

Cortez Banks, near San Diego.

*Myctophum townsendi* Eigenmann & Eigenmann, West Am. Sci. 1889, 125, Cortez Banks, off San Diego, California.**855. *Lampanyctus alatus* Goode & Bean.**

Gulf of Mexico.

*Lampanyctus alatus* Goode & Bean, Oceanic Ichthyology, 79, fig. 92, 1896, Gulf of Mexico, in latitude 28° 43' N., longitude 87° 14' W.**856. *Lampanyctus guntheri* Goode & Bean.**

Grand Banks.

*Lampanyctus guntheri* Goode & Bean, Oceanic Ichthyology, 79, fig. 90, 1896, Grand Banks.**857. *Lampanyctus gemmifer* Goode & Bean.**

Gulf Stream.

*Lampanyctus gemmifer* Goode & Bean, Oceanic Ichthyology, 80, fig. 88, 1896, Grand Banks, in latitude 39° 40' N., longitude 71° 35' W., in 538 fathoms.**858. *Lampanyctus lacerta* Goode & Bean.**

Gulf of Mexico.

*Lampanyctus lacerta* Goode & Bean, Oceanic Ichthyology, 81, fig. 89, 1896, Gulf of Mexico, in latitude 28° 38' 30'' N., longitude 85° 52' 30'' W.**Genus 261. LAMPADENA Goode & Bean.***Lampadena* Goode & Bean, Oceanic Ichthyology, 85, 1896 (*speculigera*).**859. *Lampadena speculigera* Goode & Bean.**

Gulf Stream.

*Lampadena speculigera* Goode & Bean, Oceanic Ichthyology, 85, fig. 99, 1896, Gulf Stream, in latitude 39° 48' N., longitude 70° 36' W., in 551 fathoms.

Genus 262. **NANNOBRACHIUM** Günther.

*Nannobrachium* Günther, Deep Sea Fishes, Challenger, 190, 1887 (*nigrum*).

860. **Nannobrachium leucopsarum** (Eigenmann & Eigenmann).

Pacific Coast of America from Alaska to San Diego.

*Myctophum* (*Stenobrachius*) *leucopsarum* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1890, 5, off Point Loma, California, in stomachs of *Sebastes*.

861. **Nannobrachium nannochir** (Gilbert).

Alaska to Santa Barbara Islands, in deep water.

*Myctophum nannochir* Gilbert, Proc. U. S. Nat. Mus. 1890, 51, off Washington, at Albatross Stations 2925, 3072, and others, in 266 to 685 fathoms.

862. **Nannobrachium mexicanum** (Gilbert).

Coast of Lower California, in deep water.

*Myctophum mexicanum* Gilbert, Proc. U. S. Nat. Mus. 1890, 51, off Lower California, at Albatross Stations 3008 and 3009, in 306 and 857 fathoms.

863. **Nannobrachium regale** (Gilbert).

Santa Barbara Channel, in deep water.

*Myctophum regale* Gilbert, Proc. U. S. Nat. Mus. 1891, 544, Santa Barbara Channel, California, at Albatross Station 2923, in 822 fathoms.

864. **Nannobrachium macdonaldi** Goode & Bean.

Gulf Stream.

*Nannobrachium macdonaldi* Goode & Bean, Oceanic Ichthyology, 94, fig. 110, 1896, Gulf Stream.

Genus 263. **DIAPHUS** Eigenmann & Eigenmann.

*Diaphus* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., 2d series, III. 1890, 3 (*theta*).

865. **Diaphus theta** Eigenmann & Eigenmann.

Point Loma, near San Diego, to coast of Oregon.

*Diaphus theta* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., III. 1890, 4, Point Loma, near San Diego, California.

Genus 264. **ÆTHOPRORA** Goode & Bean.

*Æthoprora* Goode & Bean, Oceanic Ichthyology, 86, 1896 (*metopoclampus*).

866. **Æthoprora lucida** Goode & Bean.

Gulf Stream.

*Æthoprora lucida* Goode & Bean, Oceanic Ichthyology, 87, fig. 102, 1896, Gulf Stream, in latitude 19° 45' N., longitude 75° 4' W.

867. **Æthoprora effulgens** Goode & Bean.

Western Atlantic.

*Æthoprora effulgens* Goode & Bean, Oceanic Ichthyology, 87, fig. 103, 1896, Browns Bank and Albatross Station 2127, 19° 45' N., 75° W.

Genus 265. **COLLETTIA** Goode & Bean.

*Collettia* Goode & Bean, Oceanic Ichthyology, 88, 1896 (*rafinesquei*).

868. **Collettia rafinesquei** (Cocco).

Mediterranean and Atlantic; Gulf Stream, off the New England coast.

*Myctophus rafinesquei* Cocco, Alcuni Salmoni, etc., 20, 1820, Messina.

869. **Collettia nocturna** (Poey).

Coast of Cuba.

*Myctophum nocturnum* Poey, Memorias, II, 426, 1861, Cuba.

Genus 266. **RHINOSCOPELUS** Lütken.

*Rhinoscopelus* Lütken, Vid. Selsk. Natur. Kjöbenhavn, VII, 1892, 237 (*coccoi*).

870. **Rhinoscopelus coccoi** (Cocco).

Western Atlantic, Gulf Stream, Mediterranean, and ranging from Newfoundland to Africa.

*Scopelus coccoi* Cocco, Giorn. Sci. Litt. Art. Sicilia (No. 77), Palermo. 1829, 143 ("Scopelo de Cocco"), Palermo.

doubtful genus.

On - p t e v g e d e n / J o n n e s

**871. *Rhinoscopelus andree* (Lütken).**

Open Atlantic and Indian Ocean; Gulf Stream.

*Scopelus andree* Lütken, Spolia Atlantica, Scopelini, 25, 1892, North Atlantic.**872. *Rhinoscopelus rarus* (Lütken).**

Open Atlantic, west to 50° W., 33° N.

*Scopelus rarus* Lütken, Spolia Atlantica, Scopelini, 11, 26, 1892, North Atlantic**Genus 267. MYCTOPHUM Rafinesque.***Myctophum* Rafinesque, Indice d'Ittiologia Siciliana, 56, 1810 (*punctatum*).**873. *Myctophum punctatum* Rafinesque.**

Warmer parts of the Atlantic, Grand Banks, and from the Gulf Stream to the Mediterranean.

*Myctophum punctatum* Rafinesque, Indice d'Ittiologia Siciliana, 56, pl. 2, fig. 5, 1810, Palermo.**874. *Myctophum affine* (Lütken).**

Open Atlantic, west to 63° W., 38° N.

*Scopelus affinis* Lütken, Spolia Atlantica, 11, 32, 1892, open Atlantic.**875. *Myctophum opalinum* Goode & Bean.**

Western Atlantic.

*Myctophum opalinum* Goode & Bean, Oceanic Ichthyology, 72, fig. 81, 1896, Gulf Stream.**876. *Myctophum humboldti* (Risso).**

Open seas, Mediterranean, and Atlantic on both shores.

*Gasteropelerus humboldti* Risso, Ichth. Nice, 358, 1810, Nice.**877. *Myctophum californiense* Eigenmann & Eigenmann.**

Cortez Banks, near San Diego, California.

*Myctophum californiense* Eigenmann, West Am. Sci., November 9, 1889, 124, San Diego, California.**878. *Myctophum gracile* (Lütken).**

Open Atlantic, west to 48° W., 23° N.

*Scopelus gracilis* Lütken, Spolia Atlantica, 11, 35, 1892, open Atlantic.**879. *Myctophum benoiti* (Cocco).**

Mediterranean to Norway and Greenland.

*Scopelus benoiti* Cocco, Lett. su. Salmon., 12, pl. 2, fig. 4, 1838, Messina.**880. *Myctophum hygomii* (Lütken).**

North Atlantic, occasional in our waters.

*Scopelus hygomii* Lütken, Spolia Atlantica, Scopelini, 256, 1892, North Atlantic.**Genus 268. BENTHOSEMA Goode & Bean.***Benthosema* Goode & Bean, Oceanic Ichthyology, 75, 1896 (*mulleri*).**881. *Benthosema mulleri* (Gmelin).**

North Atlantic, Norway to Greenland; South Carolina.

*Salmo mulleri* Gmelin, Syst. Nat., 1378, 1788, Norway; after Strom.**882. *Benthosema arcticum* (Lütken).**

Davis Straits, Greenland.

*Scopelus arcticum* Lütken, Spolia Atlantica, Scopelini, 29, 1892, Davis Straits.**Genus 269. DASYSCOPELUS Günther.***Dasyscopelus* Günther, Cat., v, 405, 1864 (*asper*).**883. *Dasyscopelus spinosus* (Steindachner).**

Open seas; mid-Atlantic; Hawaiian Islands, etc.

*Scopelus spinosus* Steindachner, Sitzungsber. Ichth. Notiz., v, 11, 1867, China.



Genus 270. **TARLETONBEANIA** Eigenmann & Eigenmann.

*Tarletonbeania* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., iv, 1890, 7 (*tenua*).

884. *Tarletonbeania crenularis* (Jordan & Gilbert).

Santa Barbara Channel; coast of Washington.

*Myctophum crenulare* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1890, 274, Santa Barbara, California.

885. *Tarletonbeania tenua* Eigenmann & Eigenmann.

Coronado Islands, near San Diego.

*Tarletonbeania tenua* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., iv, 1890, 7, Coronado Islands, near San Diego, California.

Family LXXVI. **MAUROLICIDÆ**.

Genus 271. **MAUROLICUS** Cocco.

*Maurolicus* Cocco, Lett. su. Salmon., 32, 1838 (*amethystino* = *punctatus*).

886. *Maurolicus pennanti* (Walbaum).

Open seas, widely distributed; New England coast at Nahant, Provincetown, Woods Hole, etc.

*Argentina pennanti* Walbaum, Artedi Pisc., 47, 1792, England; after "*Sheppy argentine*" of Pennant.

Genus 272. **VINCIGUERRIA** Jordan & Evermann.

*Vinciguerria* Jordan & Evermann, Fishes North and Middle America, 577, 1896 (*attenuata*).

887. *Vinciguerria attenuata* (Cocco).

Open Atlantic, west to the Bahama region.

*Maurolicus attenuatus* Cocco, Lett. su. Salmon., 33, 1838, coast of Italy.

Genus 273. **VALENCIENNELLUS** Jordan & Evermann.

*Valenciennellus* Jordan & Evermann, Fishes North and Middle America, 577, 1896 (*tripunctulatus*).

888. *Valenciennellus tripunctulatus* (Esmark).

Madagascar; Denmark Straits, between Greenland and Iceland.

*Maurolicus tripunctulatus* Esmark, Christiania Vid. Selsk. Forh., 488, 1870, Madagascar.

Family LXXVII. **CHAULIODONTIDÆ**. The Viper-Fishes.

Genus 274. **GONOSTOMA** Rafinesque.

*Gonostoma* Rafinesque, Indice d'Ittiologia Siciliana, 64, 1810 (*denudatum*).

889. *Gonostoma denudatum* Rafinesque.

Gulf of Mexico at Albatross Station 2665; off Morocco and Cape Verde; Mediterranean Sea.

*Gonostoma denudata* Rafinesque, Indice d'Ittiol. Sicil., 65, 1810, Palermo.

890. *Gonostoma brevidens* Kner & Steindachner.

Grenada; Bahama Channel; Bequia.

*Gonostoma brevidens* Kner & Steindachner, Sitzb. Akad. Wissensch., Wien, LXI, 1870, 443, Atlantic.

Genus 275. **BONAPARTIA** Goode & Bean.

*Bonapartia* Goode & Bean, Oceanic Ichthyology, 102, 1896 (*pedaliota*).

891. *Bonapartia pedaliota* Goode & Bean.

Gulf Stream.

*Bonapartia pedaliota* Goode & Bean, Oceanic Ichthyology, 102, fig. 120, 1896, Gulf Stream, at Albatross Station 2642.

name prescribed in Ord.

Bogner.

**Genus 276. CYCLOTHONE Goode & Bean.***Cyclothone* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 221, 1882 (*lusca*).**Subgenus CYCLOTHONE Goode & Bean.****892. *Cyclothone microdon* (Günther).**

Bermuda; Atlantic, Pacific, and Antarctic oceans; Pacific Coast from Oregon to Panama.

*Gonostoma microdon* Günther, Ann. Mag. Nat. Hist., II, 1878, 188, near Bermuda.**893. *Cyclothone bathyphila* (Vaillant).**

Gulf of Gascony and off the Azores; western Atlantic.

*Neostoma bathyphilum* Vaillant, La Nature, 1884, 184, name and rough figure only.**Subgenus SIGMOPS Gill.***Sigmops* Gill, Proc. U. S. Nat. Mus. 1883, 256 (*stigmaticus*).**894. *Cyclothone elongata* (Günther).**

New Guinea; Banda; American coast; Gulf Stream; Indian Ocean.

*Gonostoma elongatum* Günther, Ann. Mag. Nat. Hist., II, 1878, 187, New Guinea; Banda.**Genus 277. YARRELLA Goode & Bean.***Yarrella* Goode & Bean, Oceanic Ichthyology, 103, 1896 (*blackfordi*).**895. *Yarrella blackfordi* Goode & Bean.**

Gulf Stream.

*Yarrella blackfordi* Goode & Bean, Oceanic Ichthyology, 103, fig. 121, 1896, Gulf Stream, at Albatross Station 2376, in 324 fathoms.**Genus 278. CHAULIODUS Bloch & Schneider.***Chauliodus* Bloch & Schneider, Syst. Ichth., 430, 1801 (*sloanei*).**896. *Chauliodus sloanei* Bloch & Schneider.**

Mediterranean and deep waters of the Atlantic; Georges Banks.

*Chauliodus sloanei* Bloch & Schneider, Syst. Ichth., 430, 1801, Atlantic; after *Vipera marina* of Catesby.**897. *Chauliodus macouni* Bean.**

Coast of California to British Columbia and Queen Charlotte Islands.

*Chauliodus macouni* Bean, Proc. U. S. Nat. Mus. 1890, 44, off Queen Charlotte Islands.**Family LXXVIII. ASTRONESTHIDÆ.****Genus 279. ASTRONESTHES Richardson.***Astronesthes* Richardson, Ichth. Voy. Sulph., 97, 1845 (*niger*).**898. *Astronesthes niger* Richardson.**

Deep waters of all seas.

*Astronesthes niger* Richardson, Ichth. Voy. Sulph., 97, 1845, Atlantic.**899. *Astronesthes gemmifer* Goode & Bean.**

Gulf Stream.

*Astronesthes gemmifer* Goode & Bean, Oceanic Ichthyology, 105, fig. 124, 1896, Grand Banks, latitude 44° 25' N., longitude 53° 12' W., in 300 fathoms.**900. *Astronesthes richardsoni* (Poey).**

Deep waters of West Indies; Indian and Pacific oceans.

*Chauliodus richardsoni* Poey, Memorias, I, 176, 1855, Cuba.

Family LXXIX. STOMIATIDÆ.

Genus 280. STOMIAS Cuvier.

*Stomias* Cuvier, Règne Anim., ed. 1, 184, 1817 (*boa*).

901. *Stomias ferox* Reinhardt.

Greenland and southward; Gulf Stream from Bahama Channel to the Grand Banks.

*Stomias ferox* Reinhardt, Vidensk. Selsk. Naturv., etc., x, 77, 1842, Greenland.

902. *Stomias affinis* Günther.

Sombrero Island.

*Stomias affinis* Günther, Deep Sea Fishes, Challenger, xxii, 206, pl. 54, fig. A, 1887, off Sombrero Island.

Genus 281. ECHIOSTOMA Lowe.

*Echiostoma* Lowe, Proc. Zool. Soc. Lond. 1843, 87 (*barbatum*).

903. *Echiostoma barbatum* Lowe.

Madeira; Gloucester, Mass., and southward in the Gulf Stream to the old Bahama Channel.

*Echiostoma barbatum* Lowe, Proc. Zool. Soc. Lond. 1843, 88, Madeira.

904. *Echiostoma margarita* Goode & Bean.

Middle of the Gulf of Mexico.

*Echiostoma margarita* Goode & Bean, Oceanic Ichthyology, 109, fig. 131, 1896, Gulf of Mexico.

Gen 282. GRAMMATOSTOMIAS Goode & Bean.

*Grammatostomias* Goode & Bean, Oceanic Ichthyology, 110, 1896 (*dentatus*).

905. *Grammatostomias dentatus* Goode & Bean.

Gulf Stream.

*Grammatostomias dentatus* Goode & Bean, Oceanic Ichthyology, 110, fig. 133, 1896, Gulf Stream, in latitude 38° 19' 20'' N., longitude 69° 2' 30'' W.

Genus 283. PHOTONECTES Günther.

*Photonectes* Günther, Challenger Report, xxii, 212, 1887 (*albipinnis*).

906. *Photonectes gracilis* Goode & Bean.

Martinique.

*Photonectes gracilis* Goode & Bean, Oceanic Ichthyology, 112, 1896, off Martinique.

Family LXXX. MALACOSTEIDÆ.

Genus 284. MALACOSTEUS Ayres.

*Malacosteus* Ayres, Jour. Bost. Soc. Nat. Hist. 1849, 53 (*niger*).

907. *Malacosteus niger* Ayres.

Open sea; Gulf Stream and southward to Barbados.

*Malacosteus niger* Ayres, Jour. Bost. Soc. Nat. Hist. 1849, 53, Gulf Stream, 42° N., 60° W.

Family LXXXI. ALEPISAURIDÆ. The Lancet-Fishes.

Genus 285. ALEPISAURUS Lowe. Lancet-fishes.

*Alepisaurus* Lowe, Proc. Zool. Soc. Lond. 1833, 104 (*ferox*).

Subgenus ALEPISAURUS Lowe.

908. *Alepisaurus ferox* Lowe.

Deep waters of the Atlantic; coasts of Nova Scotia and Massachusetts, and the Grand Banks.

*Alepisaurus ferox* Lowe, Trans. Zool. Soc. Lond., 1, 1833, 395, Madeira.



Caulopus - good genus.

Evermannella  
a. for. tortuosa, 1

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**909. *Alepisaurus asculapius* (Bean). *Sabatka*; *Wolf-fish*.**

Coast of Alaska to California; Unalaska and elsewhere.

*Alepidosaurus asculapius* Bean, Proc. U. S. Nat. Mus. 1882, 661. Unalaska.

Subgenus CAULOPUS Gill.

*Caulopus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 128 (*altirelis*).**910. *Alepisaurus altivelis* Poey. *Conejo*.**

Cuba.

*Alepisaurus altivelis* Poey, Memorias, II, 302, 1860, Cuba.**911. *Alepisaurus borealis* (Gill). *Handsaw-fish*.**

Pacific Coast of America from Alaska to Puget Sound.

*Alepidosaurus* (*Caulopus*) *borealis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 128, Puget Sound.**912. *Alepisaurus serra* (Gill). *Serra*.**

Monterey, California.

*Alepidosaurus* (*Caulopus*) *serra* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 129, Monterey, California.**Family LXXXII. ODONTOSTOMIDÆ.****Genus 286. OMOSUDIS Günther.***Omosudis* Günther, Challenger Report, xxii, 201, 1887 (*lowii*).**913. *Omosudis lowii* Günther.**

Open sea; Gulf Stream, at Albatross Station 2392.

*Omosudis lowii* Günther, Challenger Report, xxii, 201, pl. 52, figs. c, c', 1887. Philippine Islands; Magdalena.**Family LXXXIII. PARALEPIDIDÆ.****Genus 287. SUDIS Rafinesque.***Sudis* Rafinesque, Caratteri di Alcuni Nuovi Generi, etc., 60, 1810 (*hyalina*).**914. *Sudis intermedius* (Poey).**

Matanzas, Cuba.

*Paralepis intermedius* Poey, Repertorio, II, 416, 1867, Matanzas.**915. *Sudis ringens* Jordan & Gilbert.**

Santa Barbara Channel, California.

*Sudis ringens* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 273, Santa Barbara.**Genus 288. ARCTOZENUS Gill.***Arctozenus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 188 (*borealis*).**916. *Arctozenus borealis* (Reinhardt).**

Greenland and southward to Cape Ann.

*Paralepis borealis* Reinhardt, Naturv. Math. Afhandl., VII, 115, 1832, Greenland.**917. *Arctozenus coruscans* (Jordan & Gilbert).**

Puget Sound.

*Paralepis coruscans* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 411, harbor of Port Townsend, Washington.**Genus 289. PARALEPIS Risso.***Paralepis* Risso, Hist. Nat. Eur. Mérid., III, 472, 1826 (*coregonoides*).**918. *Paralepis coregonoides* Risso.**

Mediterranean; Gulf Stream at Albatross Station 2393.

*Paralepis coregonoides* Risso, Hist. Nat. Eur. Mérid., III, 472, pl. 7, fig. 15, 1826, Nice.



Family LXXXIV. STERNOPTYCHIDÆ.

Genus 290. STERNOPTYX Hermann.

*Sternoptyx* Hermann, Naturforscher, xvi, 8, 1771 (*diaphana*).

919. *Sternoptyx diaphana* Hermann.

Atlantic; Gulf Stream, from Santa Cruz Island to the Grand Banks.

*Sternoptyx diaphana* Hermann, Naturforscher, xvi, 8, 1771, Jamaica.

Genus 291. ARGYROPELECUS Cocco.

*Argyropelecus* Cocco, Giorn. Sci. Sicil., fasc. 77, 146, 1829 (*hemigymnus*).

920. *Argyropelecus hemigymnus* Cocco.

Atlantic and Mediterranean; Gulf Stream off southern New England.

*Argyropelecus hemigymnus* Cocco, Giorn. Sci. Sicil., fasc. 77, 146, 1829, coast of Italy.

921. *Argyropelecus olfersi* (Cuvier).

Open Atlantic; coast of Norway to Brazil and Cape of Good Hope, Grand Banks southward in the Gulf Stream.

*Sternoptyx olfersi* Cuvier, Règne Anim., ed. 2, ii, 316, 1829, near Cape of Good Hope.

Family LXXXV. IDIACANTHIDÆ.

Genus 292. IDIACANTHUS Peters.

*Idiacanthus* Peters, Monatsber. Akad. Wiss. Berlin 1876, 846 (*fasciola*).

922. *Idiacanthus ferox* (Günther).

North Atlantic.

*Bathypolis ferox* Günther, Ann. Mag. Nat. Hist., ii, 1878, 181, North Atlantic.

923. *Idiacanthus antrostomus* Gilbert.

Coast of southern California, in deep water.

*Idiacanthus antrostomus* Gilbert, Proc. U. S. Nat. Mus. 1890, 54, off southern California, at Albatross Station 2980, in 603 fathoms.

Order U. LYOPOMI.

Family LXXXVI. HALOSAURIDÆ.

Genus 293. HALOSAURUS Johnson.

*Halosaurus* Johnson, Proc. Zool. Soc. Lond. 1863, 406 (*oweni*).

924. *Halosaurus oweni* Johnson.

Madeira; Gulf Stream, at Albatross Station 2181; Guadeloupe and Santa Lucia.

*Halosaurus oweni* Johnson, Proc. Zool. Soc. Lond. 1863, 406, pl. 36, fig. 2, Madeira.

925. *Halosaurus guntheri* Goode & Bean.

Gulf Stream.

*Halosaurus guntheri* Goode & Bean, Oceanic Ichthyology, 131, 1896, Gulf Stream, in latitude 39° 13' N., longitude 72° W., Albatross Station 2722.

Genus 294. ALDROVANDIA Goode & Bean.

*Aldrovandia* Goode & Bean, Oceanic Ichthyology, 132, 1896 (*rostratus*).

926. *Aldrovandia rostrata* (Günther).

Mid-Atlantic.

*Halosaurus rostratus* Günther, Ann. Mag. Nat. Hist., ii, 1878, 252, mid-Atlantic.

927. *Aldrovandia macrochir* (Günther).

Marion Island; Blake Stations 308 and 325.

*Halosaurus macrochir* Günther, Ann. Mag. Nat. Hist., ii, 1878, 251, between Cape of Good Hope and Kerguelen Island.

also of Japan.

Halosaurus Collett. June 1896



**928. *Aldrovandia goodii* (Gill).**

Gulf Stream, at Albatross Stations 2037 in 1,731 fathoms, 2051 in 1,106 fathom  
2035 in 1,362 fathoms, and 2052 in 1,098 fathoms.

*Halosaurus goodii* Gill, Proc. U. S. Nat. Mus. 1883, 257, Gulf Stream, at Albatross Stations 2035, 2037, 2051, and 2052, off South Carolina.

**929. *Aldrovandia gracilis* Goode & Bean.**

Gulf Stream and Gulf of Mexico.

*Aldrovandia gracilis* Goode & Bean, Oceanic Ichthyology, 134, fig. 157, 1896, off Guadeloupe, and in Gulf Stream at Albatross Station 2380, latitude 28° 2' 30" N., longitude 87° 43' 45" W.; also Albatross Station 2381, latitude 28° 5' N., longitude 87° 56' 15" W.

**930. *Aldrovandia pallida* Goode & Bean.**

Gulf Stream, at Albatross Station 173 in 955 fathoms in Gulf Stream.

*Aldrovandia pallida* Goode & Bean, Oceanic Ichthyology, 135, fig. 158, 1896, Gulf of Mexico.

**Order V. HETEROMI. The Spiny Eels.****Family LXXXVII. NOTACANTHIDÆ.****Genus 295. NOTACANTHUS Bloch.**

*Notacanthus* Bloch, Abhandl. Böhmischen Gesellsch. der Wissenschaft, I, 278, 1787 (*chemnitzii*) (*nasus*).

**931. *Notacanthus chemnitzii* Bloch.**

Greenland; West Indies; Iceland; Scandinavia; South Greenland.

*Notacanthus chemnitzii* Bloch, Abhandl. Böhmischen Gesellsch. der Wissenschaft, I, 278, 1787, Northern Sea.

**932. *Notacanthus analis* Gill.**

Gulf Stream.

*Notacanthus analis* Gill, Proc. U. S. Nat. Mus. 1883, 255, latitude 40° N., longitude 69° W., at Albatross Stations 2677 in 478 fathoms, and 2676 in 407 fathoms.

**933. *Notacanthus phasganorus* Goode.**

Grand Banks, Newfoundland.

*Notacanthus phasganorus* Goode, Proc. U. S. Nat. Mus., III, 1880, 535, Grand Banks of Newfoundland.

**Genus 296. MACDONALDIA Goode & Bean.**

*Macdonaldia* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 467 (*rostrata*).

**934. *Macdonaldia rostrata* (Collett).**

Gulf Stream.

*Notacanthus rostratus* Collett, Bull. Soc. Zool. France, 1889, 307, off Newfoundland, at Albatross Stations 2216 in 963 fathoms, and 2553 in 551 fathoms.

**935. *Macdonaldia challengerii* (Vaillant).**

North Pacific and Bering Sea.

*Notacanthus challengerii* Vaillant, Expédition Travailleur et Talisman, 1888, south of Yeddo.

**Family LXXXVIII. LIPOGENYIDÆ.****Genus 297. LIPOGENYS Goode & Bean.**

*Lipogenys* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 469 (*gillii*).

**936. *Lipogenys gillii* Goode & Bean.**

Gulf Stream.

*Lipogenys gillii* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 469, pl. 18, fig. 3, and in Oceanic Ichthyology, 173, 1896, Station 2742, Gulf Stream.

Order W. **XENOMI.**

Family **LXXXIX. DALLIIDÆ. The Alaska Blackfishes**

Genus 398. **DALLIA** Bean.

*Dallia* Bean, Proc. U. S. Nat. Mus. 1879, 358 (*pectoralis*).

937. *Dallia pectoralis* Bean. *Alaska Blackfish; Charnia Ryba.*

Northern Alaska and Siberia.

*Dallia pectoralis* Bean, Proc. U. S. Nat. Mus. 1879, 358, St. Michaels, Alaska.

Order X. **HAPLOMI. The Pike-like Fishes.**

Family **KC. UMBRIDÆ. The Mud Minnows.**

Genus 399. **UMBRA** (Krämer) Müller.

*Umbra* Krämer, Anim. Austr. Infer. 1756; Müller, Abhandl. Akad. Wiss. Wien, Berlin, 188, 1842 (*crameri*).

Subgenus **MELANURA** Agassiz.

*Melanura* Agassiz, Am. Jour. Sci. Arts 1854, 135 (*annulata*, etc., = *pygmæa*).

938. *Umbra limi* (Kirtland). *Mud Minnow; Dogfish.*

Quebec to Minnesota and southward to the Ohio River.

*Hydrargyra limi* Kirtland, Bost. Jour. Nat. Hist., III, 1840, 277, streams in northern Ohio.

939. *Umbra pygmæa* (DeKay). *Eastern Mud Minnow.*

Lowland streams and coastwise swamps from Long Island to Nouse River.

*Leuciscus pygmæus* DeKay, New York Fauna: Fishes, 214, 1842, Tappan, Rockland County, New York.

Family **XCI. LUCIIDÆ. The Pikes.**

Genus 300. **LUCIUS** Rafinesque.

*Lucius* Rafinesque, Caratteri di Alcuni Nuovi Generi, 59, 1810 (*lucius*).

Subgenus **KENOZA** Jordan & Evermann.

*Kenoza* Jordan & Evermann, Fishes North and Middle America, 625, 1896 (*americanus*).

940. *Lucius americanus* (Gmelin). *Banded Pickerel.*

Massachusetts to Florida, east of Alleghany Mountains; Escambia River at Flomaton, Alabama.

*Esox lucius* (*B. americanus*) Gmelin, Syst. Nat., 1390, 1788, Long Island, New York; after Schöpf.

941. *Lucius vermiculatus* (LeSueur). *Little Pickerel.*

Mississippi Valley, tributaries of Lake Erie and Lake Michigan, south to Mississippi and Arkansas.

*Esox vermiculatus* LeSueur, in Cuvier & Valenciennes, Hist. Nat. Poiss., XVIII, 333, 1846, Wabash River, New Harmony, Indiana.

942. *Lucius reticulatus* (LeSueur). *Common Eastern Pickerel; Green Pike; Jack.*

Maine to Florida, Louisiana, Arkansas, and Tennessee.

*Esox reticulatus* LeSueur, Jour. Ac. Nat. Sci. Phila., I, 1818, 414, Connecticut River, Adams, Massachusetts; Philadelphia.

Subgenus **LUCIUS** Rafinesque.

943. *Lucius lucius* (Linnaeus). *Common Pike; Pickerel.*

Fresh waters of the northern parts of Europe, Asia, and North America, north to Alaska and Siberia; in the eastern United States south to New York and the Ohio River; in Europe south to Italy and Greece.

*Esox lucius* Linnaeus, Syst. Nat., ed. x, 314, 1758, Europe.

Spencer.

Sox

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Indians between 1840 & 1850  
Sp. to 1850 & 1860.

**Subgenus MASCALONGUS Jordan.***Mascalongus* Jordan, Klippart's Report Ohio Fish Com., 92, 1878 (*nobilior*).**944. *Lucius masquinongy* (Mitchill). *Muskallunge*; *Maskinongy*; *Muscalonge*.**

Great Lakes region; Upper Mississippi Valley and northward.

*Esox masquinongy* Mitchill, Mirror, 1824, 297.**944a. *Lucius masquinongy ohlensis* (Kirtland). *Ohio Muscalonge*.**

Ohio River and its tributaries.

*Esox ohlensis* Kirtland, Proc. Cleveland Ac. Nat. Sci., February 7, 1854, 85, Mahoning River, Ohio.**944b. *Lucius masquinongy immaoulatus* (Garrard). *Great Northern Pike*.**

Lakes of Wisconsin and Minnesota; also in Chautauqua Lake and Conneaut Lake.

*Esox immaoulatus* Garrard ms., noticed in different fishing journals; Jordan, Manual, ed. 5, 89, 1888, Eagle Lake, northern Wisconsin.**Family XCII. POECILIIDÆ. The Killifishes.****Genus 301. FUNDULUS Lacépède. Killifishes.***Fundulus* Lacépède, Hist. Nat. Poiss., v, 37, 1803 (*mudfish*).**Subgenus FUNDULUS Lacépède.****945. *Fundulus punctatus* Günther.**

Chiapas.

*Fundulus punctatus* Günther, Cat., vi, 320, 1866, Chiapas.**946. *Fundulus vinctus* Jordan & Gilbert.**

Coast of Lower California.

*Fundulus vinctus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 355, Cape San Lucas.**947. *Fundulus pallidus* Evermann.**

Galveston Bay and Swan Lake, Texas.

*Fundulus pallidus* Evermann, Bull. U. S. Fish Com. 1891 (1892), 84, Swan Lake, near Galveston Bay, Galveston, Texas.**948. *Fundulus similis* (Baird & Girard). *Sac-a-Lail*.**

Coast of the Gulf States.

*Hydrargyra similis* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 389, Indianola, Texas.**949. *Fundulus majalis* (Walbaum). *Killifish*; *Mayfish*; *Rockfish*.**

Cape Cod to Florida.

*Cobitis majalis* Walbaum, Artedi Pisc., 12, 1792, Long Island.**950. *Fundulus parvipinnis* Girard.**

Coast of California from Point Conception southward to Lower California.

*Fundulus parvipinnis* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 154, San Diego.**951. *Fundulus lima* Vaillant.**

Lower California.

*Fundulus lima* Vaillant, Bull. Soc. Philom. 1894, 71, San Ignatio de Caracamande, Lower California.**952. *Fundulus heteroclitus* (Linnæus). *Common Killifish*; *Mudfish*; *Mud Dabblers*; *Mummichog*; *Cobbler*.**

Coast of Maine to the Rio Grande; Gulf Coast.

*Cobitis heteroclitus* Linnæus, Syst. Nat., ed. xii, 500, 1766, Charleston; after the *Mudfish* of Dr. Garden.**952a. *Fundulus heteroclitus grandis* (Baird & Girard).**

Gulf Coast of United States.

*Fundulus grandis* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 389, Indianola, Texas.



953. *Fundulus ocellaris* Jordan & Gilbert.

Gulf Coast of Florida to Louisiana.

*Fundulus ocellaris* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 255, Pensacola, Florida, in salt water.

954. *Fundulus fonticola* Cuvier & Valenciennes.

Mountain springs in Porto Rico.

*Fundulus fonticola* Cuvier & Valenciennes, Hist. Nat. Poiss., xviii, 198, 1846, Porto Rico.

955. *Fundulus bermudæ* Günther. *Mangrove Minnow*.

Bermudas.

*Fundulus bermudæ* Günther, Ann. Mag. Nat. Hist. 1874, 4, reprint, Bermudas.

956. *Fundulus robustus* Bean.

Streams of Guanajuato.

*Fundulus robustus* Bean, Proc. U. S. Nat. Mus. 1892, 285, Guanajuato.

957. *Fundulus labialis* Günther.

River of Guatemala.

*Fundulus labialis* Günther, Cat., vi, 319, 1866, Rio San Geronimo; Yzabal.

Subgenus FONTINUS Jordan & Evermann.

*Fontinus* Jordan & Evermann, Fishes North and Middle America, 645, 1896 (*seminolis*).

958. *Fundulus adinia* Jordan & Gilbert.

Rio Grande Basin.

*Fundulus adinia* Jordan & Gilbert, Synopsis, 335, 1883, Rio Grande at Brownsville, Texas.

959. *Fundulus diaphanus* (LeSueur).

Maine to Cape Hatteras in river mouths; New York to northern Illinois in lakes.

*Hydrargyra diaphana* LeSueur, Jour. Ac. Nat. Sci. Phila., i, 1817, 130, Saratoga Lake, New York.

959a. *Fundulus diaphanus menona* (Jordan & Copeland).

Ohio westward to the Mississippi River; Lake Menona, near Madison, Wis.

*Fundulus menona* Jordan & Copeland, Proc. Ac. Nat. Sci. Phila. 1877, 68, lakes about Madison, Wisconsin.

960. *Fundulus extensus* Jordan & Gilbert.

Coast of Lower California.

*Fundulus extensus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 355, Cape San Lucas.

961. *Fundulus seminolis* Girard.

Florida.

*Fundulus seminolis* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 59, Palatka, eastern Florida.

Subgenus PLANCTERUS Garman.

*Plancterus* Garman, Cyprinodonts, 96, 1895 (*kansæ* = *zebrinus*).

962. *Fundulus zebrinus* Jordan & Gilbert.

Kansas to Texas and New Mexico, in upper tributaries of Arkansas and Red rivers.

*Fundulus zebrinus* Jordan & Gilbert, Synopsis, 891, 1883 (substitute for *zebra* Girard, preoccupied), streams between Fort Defiance and Fort Union, New Mexico; doubtless headwaters of Canadian River, near Fort Union.

Subgenus XENISMA Jordan.

*Xenisma* Jordan, Bull. Buffalo Soc. Nat. Hist. 1876, 142 (*stellifera*).

963. *Fundulus catenatus* (Storer). *Studfish*.

Tennessee and Cumberland rivers and clear streams of the Ozark Mountains.

*Pacilia catenata* Storer, Synopsis, 430, 1846, Tennessee River, Florence, Alabama.





- 964. *Fundulus stellifer* (Jordan). *Studfish*.**  
Alabama River and tributaries.  
*Xenisma stellifera* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 322, Etowah and Oostanaula rivers, Rome, Georgia.  
Subgenus *GAMBUSINUS* Jordan & Evermann.  
*Gambusinus* Jordan & Evermann, Fishes North and Middle America, 649, 1896 (*rathbuni*).
- 965. *Fundulus lineatus* (Garman).**  
Northeastern Wyoming.  
*Zygonectes lineatus* Garman, Bull. Mus. Zool., VIII, No. 3, 88, 1881, northeastern Wyoming.
- 966. *Fundulus rathbuni* Jordan & Meek.**  
Eastern North Carolina.  
*Fundulus rathbuni* Jordan & Meek, Proc. U. S. Nat. Mus. 1888, 356, Reedy Fork, Allemanee Creek, Buffalo Creek, and other tributaries of Cape Fear River about Greensboro, North Carolina; Jumping Run, tributary of Yadkin River, Salisbury, North Carolina.
- 967. *Fundulus albolineatus* Gilbert.**  
Tennessee Basin in Alabama.  
*Fundulus albolineatus* Gilbert, Bull. U. S. Fish Com. 1889, 149, Spring Creek, Huntsville, Alabama.
- 968. *Fundulus confluentus* Goode & Bean.**  
Eastern Florida.  
*Fundulus confluentus* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 118, Lake Monroe, Florida.
- 969. *Fundulus funduloides* (Evermann).**  
Coast of Texas.  
*Zygonectes funduloides* Evermann, Bull. U. S. Fish Com. 1891 (1892), 85, Dickinson Bayou, Dickinson, Texas, on Galveston Bay.  
Subgenus *ZYGONECTES* Agassiz.  
*Zygonectes* Agassiz, Am. Jour. Sci. Arts 1854, 135 (*olivacea* = *notatus*).
- 970. *Fundulus macdonaldi* (Meek).**  
Tributaries of Gasconade and Neosho rivers, southern Missouri.  
*Zygonectes macdonaldi* Meek, Bull. U. S. Fish Com. 1889, 122, Jones Creek, Dixon, Mo.; Osage Fork of Gasconade River, at Mansfield; Neosho River.
- 971. *Fundulus floripinnis* (Cope).**  
Platte River and Arkansas River, in Colorado; Cherry Creek, a tributary of the Arkansas.  
*Haplochilus floripinnis* Cope, Zool. Lieut. Wheeler's Expl. W. 100th Mer., v, 695, 1876, Platte River, at Denver, Colorado.
- 972. *Fundulus jenkinsi* (Evermann).**  
Coast of Texas.  
*Zygonectes jenkinsi* Evermann, Bull. U. S. Fish Com. 1891 (1892), 86, Dickinson Bayou, Galveston Bay.
- 973. *Fundulus pulvereus* (Evermann).**  
Coast of Texas.  
*Zygonectes pulvereus* Evermann, Bull. U. S. Fish Com. 1891 (1892), 85, Dickinson Bayou; Buffalo Bayou at Houston; Oso Creek at Corpus Christi, Texas.
- 974. *Fundulus arlingtonius* (Goode & Bean).**  
Arlington River, a tributary of St. Johns River, Florida.  
*Gambusia arlingtonia* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 118, Arlington River, Florida.
- 975. *Fundulus henshalli* (Jordan).**  
Southern Florida.  
*Zygonectes henshalli* Jordan, Proc. U. S. Nat. Mus. 1879, 237, San Sebastian River, Florida.

**976. *Fundulus rubrifrons* (Jordan).**

Eastern Florida.

*Zygonectes rubrifrons* Jordan, Proc. U. S. Nat. Mus. 1879, 237, San Sebastian River, Florida.

**977. *Fundulus scartesi* Meek.**

Eastern Arkansas.

*Fundulus scartesi* Meek, Bull. U. S. Fish Com. 1895 (1896), 347, St. Francis River, Big Bay, Arkansas.

**978. *Fundulus sciadicus* Cope.**

Middle Missouri River basin.

*Fundulus sciadicus* Cope, Proc. Ac. Nat. Sci. Phila. 1865, 78, Platte River, Nebraska.

**979. *Fundulus luciae* (Baird & Girard).**

Atlantic Coast from Long Island to Virginia.

*Hydragyra luciae* Baird, Ninth Smithsonian Rept. 1855, 344, Beesley Point, New Jersey.

**980. *Fundulus goodei* (Jordan).**

Everglades region; Alligator, Arlington, Peace, and Withlacoochee rivers.

*Lucania goodei* Jordan, Proc. U. S. Nat. Mus. 1879, 240, Arlington River, Florida, a tributary of the St. Johns.

**981. *Fundulus chrysotus* Holbrook.**

South Carolina to Florida.

*Fundulus chrysotus* Holbrook ms., 1860, Charleston, South Carolina.

**982. *Fundulus cingulatus* Cuvier & Valenciennes.**

South Carolina to Florida; Escambia River at Flomaton, Alabama.

*Fundulus cingulatus* Cuvier & Valenciennes, Hist. Nat. Poiss., xviii, 197, 1846, "United States."

**983. *Fundulus nottii* (Agassiz). *Star-headed Minnow*.**

Florida and neighboring States.

*Zygonecotes nottii* Agassiz, Am. Jour. Sci. Arts 1854, 353, Mobile, Alabama.

**984. *Fundulus guttatus* (Agassiz).**

Florida to Texas.

*Zygonecotes guttatus* Agassiz, Am. Jour. Sci. Arts 1854, 353, Mobile, Alabama.

**985. *Fundulus dispar* (Agassiz).**

Northern Ohio to Illinois, south to Mississippi; Maumee, Wabash, Big Black, and Pearl rivers.

*Zygonecotes dispar* Agassiz, Am. Jour. Sci. Arts 1854, 353, creeks opposite St. Louis; Beardstown, Illinois.

**986. *Fundulus notatus* (Rafinesque). *Top Minnow*.**

Michigan to Alabama, Mississippi, and Texas.

*Semotilus notatus* Rafinesque, Ichth. Ohiensis, 86, 1820, tributaries of Ohio River in Kentucky.

**Genus 302. *APLOCHEILUS* McClelland.**

*Aplocheilus* McClelland, Ind. Cypr. As. Res., xix, 301, 1839 (*chrysostigmus* = *panchar*).

**987. *Aplocheilus dovii* (Günther).**

Coast of Costa Rica.

*Haplochilus dovii* Günther, Cat., vi, 316, 1866, Punta Arenas, Costa Rica.

var. *linearolatus* Garman.

$\text{doubles} = \text{cylinder}$  ,

**Genus 303. ADINIA Girard.***Adinia* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 117 (*multifasciata*).**988. *Adinia guatemalensis* (Günther).**

Guatemala, south to western Ecuador.

*Fundulus guatemalensis* Günther, Cat., vi, 321, 1866, Lake of Duenas, Lake Amatitlan, Rio Guacalate, and western Ecuador.**989. *Adinia pachycephala* (Günther).**

Guatemala.

*Fundulus pachycephalus* Günther, Cat., vi, 321, 1866, Lake Atitlan, Guatemala.**990. *Adinia dugesii* (Bean).**

Guanajuato, Mexico.

*Fundulus dugesii* Bean, Proc. U. S. Nat. Mus. 1887, 373, Guanajuato.**991. *Adinia multifasciata* Girard.**

Gulf Coast, western Florida to Texas.

*Adinia multifasciata* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 11, Galveston, St. Joseph Island, and Indianola, Texas.**Genus 304. RIVULUS Poey.***Rivulus* Poey, Memorias de Cuba, II, 307, 1860 (*cylindraceus*).**992. *Rivulus cylindraceus* Poey.**

Havana, Cuba.

*Rivulus cylindraceus* Poey, Memorias, II, 308, 1860, stream at Mordazo, near Havana, Cuba.**993. *Rivulus marmoratus* Poey.**

Cuba.

*Rivulus marmoratus* Poey, Anales de Hist. Nat. España, IX, 1880, 248, Cuba.**994. *Rivulus isthmensis* Garman.**

Costa Rica.

*Rivulus isthmensis* Garman, Cyprinodonts, 140, 1895, Rio San Jose, Costa Rica.**Genus 305. LUCANIA Girard.***Lucania* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 118 (*venusta*); not *Lucanus*, a genus of beetles.**995. *Lucania ommata* (Jordan).**

Florida; Indian River; Santa Fe River, Florida, and its tributaries.

*Heterandria ommata* Jordan, Proc. U. S. Nat. Mus. 1881, 323, Indian River, Florida.**996. *Lucania venusta* (Girard).**

Gulf of Mexico; Pensacola; mouth of the Rio Grande.

*Limia venusta* Girard, U. S. Mex. Bound. Surv., Ichth., 71, 1859, Indianola, Tex.**997. *Lucania parva* (Baird & Girard). *Rainwater fish.***

Atlantic Coast from Connecticut to Key West.

*Cyprinodon parvus* Baird & Girard, Ninth Smithson. Rept. 1855, 345, Long Island.**Genus 306. GIRARDINICHTHYS Bleeker.***Girardinichthys* Bleeker, Cyprin., 481, 1860 (*innominatus*).**998. *Girardinichthys innominatus* Bleeker.**

City of Mexico.

*Girardinichthys innominatus* Bleeker, Cyprin., 484, 1860; after Girard.



**Genus 307. EMPETRICHTHYS Gilbert.**

*Empetrichthys* Gilbert, Death Valley Exped., Fishes, 233, 1893 (*merriami*).

**999. *Empetrichthys merriami* Gilbert.**

Death Valley in eastern California.

*Empetrichthys merriami* Gilbert, Fishes of Death Valley Expedition, in North American Fauna No. 7, 234, May 31, 1893, Ash Meadows, Amargosa Desert, on boundary between California and Nevada.

**Genus 308. CHARACODON Günther.**

*Characodon* Günther, Cat., vi, 308, 1866 (*lateralis*).

**1000. *Characodon lateralis* Günther.**

Central America.

*Characodon lateralis* Günther, Cat., vi, 308, 1866, Central America.

**1001. *Characodon bilineatus* Bean.**

Rio Lerma, Guanajuato.

*Characodon bilineatus* Bean, Proc. U. S. Nat. Mus. 1887, 371, Guanajuato.

**1002. *Characodon variatus* Bean.**

Tributaries of Rio Lerma, about Guanajuato and Mexico.

*Characodon variatus* Bean, Proc. U. S. Nat. Mus. 1887, 370, Guanajuato.

**1003. *Characodon luitpoldi* Steindachner.**

Lake Pátzcuaro, Mexico.

*Characodon luitpoldi* Steindachner, Anzeiger der kais. Akad. Wissensch. 1894, 147, Lake Pátzcuaro, Mexico.

**1004. *Characodon furcoidens* Jordan & Gilbert.**

Cape San Lucas southward to Colima, Mexico.

*Characodon furcoidens* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 354, Cape San Lucas, Lower California.

**1005. *Characodon eiseni* Rutter.**

Tepic, Mexico.

*Characodon eiseni* Rutter, Proc. Cal. Ac. Sci. 1896, 265, Tepic, Jalisco, Mexico.

**Genus 309. CYPRINODON Lacépède.**

*Cyprinodon* Lacépède, Hist. Nat. Poiss., v, 486, 1803 (*variegatus*).

**1006. *Cyprinodon variegatus* Lacépède. *Sheepshead Minnow*.**

Cape Cod to the Rio Grande.

*Cyprinodon variegatus* Lacépède, Hist. Nat. Poiss., v, 486, 1803, South Carolina.

**1006a. *Cyprinodon variegatus riverendi* (Poey).**

Cuba and Florida Keys; Key West.

*Trifarcus riverendi* Poey, Memorias, ii, 306, 1860, Havana.

**1007. *Cyprinodon eximius* Girard.**

Chihuahua, Mexico.

*Cyprinodon eximius* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 158, Chihuahua River, Mexico.

**1008. *Cyprinodon bovinus* Baird & Girard.**

Leon Springs, Texas.

*Cyprinodon bovinus* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 389, Leon Springs, Texas.

**1009. *Cyprinodon macularius* Baird & Girard.**

Southern Nevada to Sonora; Ash Meadows, Nevada; Medbury Springs, Amargosa Desert, California; Saratoga Spring, Death Valley.

*Cyprinodon macularius* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 389, Rio San Pedro.

*Chamaecodon garmani*, Parras, Coahuila. (new?)



**1010. *Cyprinodon baileyi* (Gilbert).**

Pahranaagat Valley, Nevada.

*Cyprinodon macularius baileyi* Gilbert, Death Valley Exped., 233, 1893, Pahranaagat Valley, Nevada.**1011. *Cyprinodon elegans* Baird & Girard.**

Rio Grande; Rio de los Conchos, Chihuahua.

*Cyprinodon elegans* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 389, Comanche Spring, Texas.**1012. *Cyprinodon martae* Steindachner.**

Santa Marta, coast of Colombia, South America.

*Cyprinodon martae* Steindachner, Ichth. Beitr., iv, 61, 1875, Santa Marta, Caribbean Sea.**1013. *Cyprinodon carpio* Günther.**

Coasts of Florida.

*Cyprinodon carpio* Günther, Cat., vi, 306, 1866, America, locality unknown.**1014. *Cyprinodon felioianus* (Poey).**

Cuba.

*Trifarcus felioianus* Poey, Synopsis, 412, 1867, Havana.**1015. *Cyprinodon latifasciatus* Garman.**

Parras, Coahuila, Mexico.

*Cyprinodon latifasciatus* Garman, Bull. Mus. Comp. Zool., viii, No. 3, 92, 1881, Parras, Mexico.**Genus 310. JORDANELLA Goode & Bean.***Jordanella* Goode & Bean, Proc. U. S. Nat. Mus., ii, 1879, 177 (*floridæ*).**1016. *Jordanella floridæ* Goode & Bean.**

Florida, in San Sebastian, St. Johns, Alligator, Withlacoochee, Hillsboro, Pease, and Myakka rivers; also in Lakes Monroe, Jessup, and Tohopekaliga, Florida.

*Jordanella floridæ* Goode & Bean, Proc. U. S. Nat. Mus., ii, 1879, 117, Lake Monroe, Florida.**Genus 311. PSEUDOXIPHOPHORUS Bleeker.***Pseudoxiphophorus* Bleeker, Ichthyol. Ind. Prodr. Cypr., 483, 1860 (*bimaculatus*).**1017. *Pseudoxiphophorus bimaculatus* (Heckel).**

Central Mexico; Rio Blanco, Orizaba.

*Xiphophorus bimaculatus* Heckel, Sitzungsber. Akad. Wiss. Wien 1848, 169, Mexico.**Genus 312. GAMBUSIA Poey.***Gambusia* Poey, Memorias de Cuba, i, 382, 1855 (*punctata*).**1018. *Gambusia punctata* Poey. *Guajacon*.**

Cuba; Rio Almendares.

*Gambusia punctata* Poey, Memorias, i, 384, 1855, Cuba.**1019. *Gambusia puncticulata* Poey.**

Cuba.

*Gambusia puncticulata* Poey, Memorias, i, 386, 1855, Cuba.**1020. *Gambusia infans* Woolman.**

Rio Lerma, Salamanca, Mexico.

*Gambusia infans* Woolman, Bull. U. S. Fish Com. 1894, 62, Rio Lerma, Salamanca, Mexico.**1021. *Gambusia affinis* (Baird & Girard). *Top Minnow*.**

South Atlantic and Gulf coasts, Delaware to Mexico, and northward to southern Illinois.

*Heterandria affinis* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 390, Rio Medina and Rio Salado, Texas.

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1022. *Gambusia nobilis* (Baird & Girard).

Southern Illinois to the Rio Grande region; Chihuahua River.

*Heterandria nobilis* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 390, Leon and Comanche Springs, Texas; Rio Grande del Norte.

1023. *Gambusia nicaraguensis* Günther.

Lakes of Nicaragua.

*Gambusia nicaraguensis* Günther, Cat., vi, 336, 1866, lakes of Nicaragua.

1024. *Gambusia gracilis* (Heckel).

Orizaba, Mexico.

*Xiphophorus gracilis* Heckel, Sitzungsber. Akad. Wiss. Wien, i, 1848, 300, Orizaba, Mexico.

1025. *Gambusia episcopi* Steindachner.

Isthmus of Panama at Obispo Station.

*Gambusia episcopi* Steindachner, Ichth. Beitr., vi, 9, 1878, Obispo, near Panama.

1026. *Gambusia melapleura* (Gosse).

Streams of Jamaica.

*Pacilia melapleura* Gosse, Sojourn Jamaica, 84, pl. 1, fig. 3, 1851, Jamaica.

1027. *Gambusia tridentiger* Garman.

Isthmus of Panama in fresh water.

*Gambusia tridentiger* Garman, Cyprinodonts, 89, pl. 4, fig. 10, 1895, Panama.

Genus 313. **BELONESOX** Kner.

*Belonesox* Kner, Sitzungsber. Akad. Wiss. Wien 1860, xl, 419 (*belizanus*).

1028. *Belonesox belizanus* Kner.

Southern Mexico, Honduras, and Guatemala.

*Belonesox belizanus* Kner, Sitzungsber. Akad. Wiss. Wien 1860, 419, with figure, Balize.

Genus 314. **ANABLEPS** (Artedi) Bloch.

*Anableps* (Artedi) Bloch, Ichthyologia, viii, 7, 1795 (*tetrophthalmus - anableps*).

1029. *Anableps dovii* Gill.

Central America, from Chiapas to the Isthmus of Panama.

*Anableps dovii* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 4, Panama.

Genus 315. **GOODEA** Jordan.

*Goodea* Jordan, Proc. U. S. Nat. Mus. 1879, 299 (*atripinnis*).

1030. *Goodea atripinnis* Jordan.

Guanajuato, Mexico.

*Goodea atripinnis* Jordan, Proc. U. S. Nat. Mus. 1879, 299, Leon in Guanajuato.

Genus 316. **PLATYPÆCILUS** Günther.

*Platypæcilus* Günther, Cat., vi, 350, 1866 (*maculatus*).

1031. *Platypæcilus maculatus* Günther.

Mexico.

*Platypæcilus maculatus* Günther, Cat., vi, 350, Mexico.

1032. *Platypæcilus mentalis* Gill.

Atlantic side of Isthmus of Panama.

*Platypæcilus mentalis* Gill, Proc. Ac. Nat. Sci. Phila. 1876, 35, Isthmus of Panama.

HETERANDRIA Agassiz,

~~Heterandria~~ formosa Ag.  
omitted by accident.



**Genus 317. GLARIDICHTHYS Garman.**

*Glaridichthys* Garman, American Naturalist, March, 1896, 232 (*uninotatus*); substitute for *Glaridodon*, preoccupied.

**1033. *Glaridichthys uninotatus* (Poey).**

Cuba.

*Girardinus uninotatus* Poey, Memorias, II, 309, 1860, Rio Tacotaco, Cuba.

**1034. *Glaridichthys latidens* (Garman).**

Chihuahua, Mexico.

*Glaridodon latidens* Garman, Cyprinodonts, 42, pl. 5, fig. 11, 1895, Chihuahua, Mexico.

**Genus 318. GIRARDINUS Poey.**

*Girardinus* Poey, Memorias, I, 383, 1855 (*metallicus*).

**1035. *Girardinus metallicus* Poey.**

Cuba.

*Girardinus metallicus* Poey, Mem. Cuba, I, 387, lam. 31, fig. 8-11, 1855, Cuba.

**1036. *Girardinus denticulatus* Garman.**

Streams of Cuba.

*Girardinus denticulatus* Garman, Cyprinodonts, 47, 1895, Remedios, Cuba.

**1037. *Girardinus creolus* Garman.**

Cuba.

*Girardinus creolus* Garman, Cyprinodonts, 47, pl. 5, fig. 9 (teeth), 1895, Cuba.

**1038. *Girardinus pleurospilus* Günther.**

Guatemala.

*Girardinus pleurospilus* Günther, Cat., VI, 353, 1866, Lake of Duenas.

**Genus 319. PÆCILIA Bloch & Schneider.**

*Pæcilia* Bloch & Schneider, Syst. Ichthyologia, 452, 1801 (*vivipara*).

**1039. *Pæcilia versicolor* (Günther).**

San Domingo.

*Girardinus versicolor* Günther, Cat., VI, 352, 1866, San Domingo.

**1040. *Pæcilia occidentalis* (Baird & Girard).**

Gila Basin, Arizona; Yaqui River, Sonora; Tucson, Arizona.

*Heterandria occidentalis* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 390, Rio Santa Cruz, near Tucson, Arizona.

**1041. *Pæcilia pæciloides* (De Filippi).**

Barbados.

*Lebistes pæciloides* De Filippi, Arch. Zool. Anat., I, 1862, 69, Barbados.

**1042. *Pæcilia vivipara* Bloch & Schneider.**

Brazil; Guiana; Martinique.

*Pæcilia vivipara* Bloch & Schneider, Syst. Ichthyol., 452, 1801, tab. 86, fig. 2, Surinam.

**1043. *Pæcilia butleri* Jordan.**

Rio Presidio, near Mazatlan, Mexico.

*Pæcilia butleri* Jordan, Proc. U. S. Nat. Mus. 1888, 330, Rio Presidio, Mazatlan.

**1044. *Pæcilia gillii* (Kner & Steindachner).**

Rio Chagres, Panama.

*Xiphophorus gillii* Kner & Steindachner, Abh. Bayer. Akad. 1864, 28, 1866, Rio Chagres, Panama.

**1045. *Pæcilia vittata* Guichenot. *Fanguito*; *Guajica*.**

Cuba.

*Pæcilia vittata* Guichenot, in Ramon de la Sagra, Hist. Nat. Cuba, Poiss., 146, 1850, Cuba.

**1046. *Pæcilia mexicana* Steindachner.**

Southern Mexico and Central America; Chiapas; Duenas, and Vera Paz.

*Pæcilia mexicana* Steindachner, Sitzungsber. Akad. Wiss. Wien 1863, 178, southern Mexico.



1047. *Poecilia thermalis* Steindachner.

Warm Springs, etc., in Central America.

*Poecilia thermalis* Steindachner, Sitzungsber. Akad. Wiss. Wien 1863, 181,

• 2 Warm Springs, in Central America.

1048. *Poecilia chisoyensis* Günther.

Rio Chisoy, Vera Paz.

*Poecilia chisoyensis* Günther, Cat., vi, 342, Rio Chisoy.1049. *Poecilia petenensis* Günther.

Lake Peten, Yucatan.

*Poecilia petenensis* Günther, Cat., vi, 342, 1866, Lake Peten, Yucatan.1050. *Poecilia sphenops* Cuvier & Valenciennes.

Vera Cruz, Mexico.

*Poecilia sphenops* Cuvier & Valenciennes, Hist. Nat. Poiss., xviii, 130, 1846, Vera Cruz, Mexico.1051. *Poecilia dovii* Günther.

Mexico and Guatemala.

*Poecilia dovii* Günther, Cat., vi, 344, 1866, Lake Nicaragua; Lake Amatitlan.1052. *Poecilia couchiana* (Girard).

Rio San Juan at Cadereita and Monterey, and Nuevo Leon, Mexico.

*Limia couchiana* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 116, Rio San Juan, Mexico.1053. *Poecilia boucardi* Steindachner.

Colon.

*Poecilia boucardi* Steindachner, Ichth. Beitr., vi, 8, 1878, Colon or Aspinwall.1054. *Poecilia reticulata* Peters.

Brooks on the island of Curaçao, Caribbean Sea and adjacent coast.

*Poecilia reticulata* Peters, Berliner Monatsber. for 1859 (1860), 412, Rio Guayra, Caracas.1055. *Poecilia dominicensis* Cuvier & Valenciennes.

San Domingo and Barbados.

*Poecilia dominicensis* Cuvier & Valenciennes, Hist. Nat. Poiss., xviii, 131, pl. 525, 1846, San Domingo.1056. *Poecilia spilurus* Günther.

Central America.

*Poecilia spilurus* Günther, Cat., vi, 345, 1866, Central America.1057. *Poecilia elongata* Günther.

Panama.

*Poecilia elongata* Günther, Cat., vi, 342, 1866, Panama.1058. *Poecilia presidionis* Jordan & Culver.

Rio Presidio, Sinaloa, Mexico.

*Poecilia presidio* Jordan & Culver, in Jordan, Fishes of Sinaloa, 413, pl. 29, 1895, Rio Presidio, Sinaloa, Mexico.Genus 320. *MOLLIENISIA* Le Sueur.*Mollienisia* Le Sueur, Jour. Ac. Nat. Sci. Phila., ii, 1821, 3 (*latipinna*).1059. *Mollienisia jonesi* Günther.

Lake Alcohuaca, Huamantla, Mexico.

*Mollienisia jonesi* Günther, Ann. Mag. Nat. Hist., xiv, 1874, 370, Huamantla.1060. *Mollienisia formosa* (Girard).

Palo Alto, Mexico.

*Limia formosa* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 115, Palo Alto, Mexico1061. *Mollienisia latipinna* LeSueur.

South Carolina to northern Mexico.

*Mollienisia latipinna* LeSueur, Jour. Ac. Nat. Sci. Phila., ii, 1821, 3, New Orleans.

*Poecilia cuneata* Garman.  
Turbo, Panama,

? *Poecilia melanogaster*.

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**1062. *Mollienisia petenensis* Günther.**

Lake Peten, Guatemala.

*Mollienisia petenensis* Günther, Cat., vi, 348, 1866, Lake Peten, Guatemala.**Genus 321. XIPHOPHORUS Heckel.***Xiphophorus* Heckel, Sitzb. Akad. Wiss. Wien 1848, i, pl. 3, 163 (*helleri*).**1063. *Xiphophorus helleri* Heckel.**

Rivers of southern Mexico and Central America.

*Xiphophorus helleri* Heckel, Sitzb. Akad. Wiss. Wien i, 1848, 163, Rio Chisoy.**1064. *Xiphophorus guntheri* Jordan & Evermann.**

Rio Chisoy, basin of Rio Usumacinta, Guatemala.

*Xiphophorus guntheri* Jordan & Evermann, Fishes North and Middle America, 702, 1896, Rio Chisoy, Guatemala.**Family XCIII. AMBLYOPSIDÆ. The Blind Fishes.****Genus 322. CHOLOGASTER Agassiz.***Chologaster* Agassiz, Am. Jour. Sci. Arts, xvi, 1853, 135 (*cornutus*).**1065. *Chologaster cornutus* Agassiz. *Fish of the Dismal Swamp.***

Southern States; from the Dismal Swamp to the Okefinokee Swamp.

*Chologaster cornutus* Agassiz, Am. Jour. Sci. Arts 1853, 135, ditch in a rice field at Waccamaw, South Carolina.**1066. *Chologaster agassizii* Putnam.**

Tennessee and Kentucky.

*Chologaster agassizii* Putnam, Am. Nat. 1872, 30, fig., from a well at Lebanon, Tennessee.**1067. *Chologaster papilliferus* Forbes.**

Cave spring, Union County, Illinois.

*Chologaster papilliferus* Forbes, Am. Nat., January, 1882, 1, cave spring in Union County, southern Illinois.**Genus 323. TYPHLICHTHYS Girard.***Typhlichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 62 (*subterraneus*).**1068. *Typhlichthys subterraneus* Girard. *Small Blindfish.***

Subterranean streams in limestone regions of Kentucky, Tennessee, Missouri, and Alabama.

*Typhlichthys subterraneus* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 62, well at Bowling Green, Kentucky.**Genus 324. AMBLYOPSIS DeKay.***Amblyopsis* DeKay, New York Fauna: Fishes, 187, 1842 (*spelæus*).**1069. *Amblyopsis spelæus* DeKay. *Mammoth Cave Blindfish.***

Subterranean streams of the limestone regions of Kentucky and Indiana; River Styx, Mammoth Cave.

*Amblyopsis spelæus* DeKay, New York Fauna: Fishes, 187, 1842, Mammoth Cave, Kentucky.**Order Y. SYNENTOGNATHI. The Synentognathous Fishes.****Family XCIV. ESOCIDÆ. The Needle-Fishes.****Genus 325. TYLOSURUS Cocco.***Tylosurus* Cocco, "Lettere in Giornale Sci. Sicilia, xvii," 18, 1829 (*cantraini* = *imperialis* = *acus*).**1070. *Tylosurus notatus* (Poey). *Needle-fish; Long-jaws.***

West Indies, north to Pensacola, common about Key West.

*Belone notata* Poey, Memorias, ii, 293, 1860, Havana.

1071. *Tylosurus scapularis* Jordan & Gilbert.

Panama.

*Tylosurus scapularis* Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 307, Panama.1072. *Tylosurus timucu* (Walbaum). *Timucu*; *Peixe Agulka*.

Florida Keys to Brazil.

*Esox timucu* Walbaum, Artedi Pisc., III, 88, 1792, Brazil; after *Timuca* of Marcgrave.1073. *Tylosurus euryops* Bean & Dresel. *Long-jaw*.

Cuba and Jamaica.

*Tylosurus euryops* Bean & Dresel, Proc. U. S. Nat. Mus. 1884, 168, Jamaica.1074. *Tylosurus diplotænia* (Cope).

St. Martins Island, West Indies.

*Belone diplotænia* Cope, Trans. Am. Philos. Soc. 1871, 481, St. Martins.1075. *Tylosurus microps* (Günther).

Coast of Guiana.

*Belone microps* Günther, Cat., VI, 237, 1866, Surinam, British Guiana.1076. *Tylosurus angusticeps* (Günther).

Coast of Ecuador.

*Belone angusticeps* Günther, Cat., VI, 238, 1866, Ecuador.1077. *Tylosurus ardeola* (Cuvier & Valenciennes)

West Indies.

*Belone ardeola* Cuvier & Valenciennes, Hist. Nat. Poiss., 425, 1846, Martinique.1078. *Tylosurus stolzmanni* (Steindachner).

Pacific Coast of America from Guaymas and Mazatlan to Peru.

*Belone stolzmanni* Steindachner, Ichth. Beitr., VII, 21, 1878, Tumbes, Peru.1079. *Tylosurus exilis* (Girard). *Needle-fish*.

Coast of southern California, from Point Conception southward to Cerros Island.

*Belone exilis* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 149, San Diego.1080. *Tylosurus marinus* (Walbaum). *Garfish*; *Billfish*; *Needle-fish*; *Agujon*.

Coast of Maine to Texas; Atlantic and Gulf coasts.

*Esox marinus* Walbaum, Artedi Piscium, III, 88, 1792; after Schöpf.1081. *Tylosurus almelda* (Quoy & Gaimard). *Timucu*.

Surinam to Rio Janeiro and northward in the West Indies.

*Belone almelda* Quoy & Gaimard, Voyage de l'Uranie, Zool., 226, 1824, Brazil.1082. *Tylosurus fodiator* Jordan & Gilbert. *Agujon*.

Pacific Coast of Mexico.

*Tylosurus fodiator* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 459, Mazatlan.1083. *Tylosurus raphidoma* (Ranzani). *Houndfish*; *Aguja de Casta*; *Guardfish*.

West Indies, Florida Keys to Brazil; Ocean City, New Jersey.

*Belone raphidoma* Ranzani, Nov. Com. Ac. Nat. Sci. Inst. Bonon., V, 1842, 359, pl. 37, fig. 1, Brazil.1084. *Tylosurus galeatus* (Cuvier & Valenciennes).

Cayenne, French Guiana.

*Belone galeata* Cuvier & Valenciennes, Hist. Nat. Poiss., XVIII, 429, 1846, Cayenne, French Guiana.1085. *Tylosurus pacificus* (Steindachner).

Acapulco to Panama.

*Belone pacifica* Steindachner, Ichth. Beitr., III, 65, 1875, Panama.1086. *Tylosurus acus* (Lacépède). *Houndfish*; *Agujon*.

West Indies and occasionally northward.

*Sphyrana acus* Lacépède, Hist. Nat. Poiss., V, 6, pl. 1, fig. 3, 1803, Martinique.

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**1087. *Tylosurus caribbæus* (LeSueur).**

West Indies.

*Belone caribbæa* LeSueur, Jour. Ac. Nat. Sci. Phila., II, 1821, 127, Caribbean Sea.

B

**Genus 326. *ATHLENNES* Jordan & Fordice.***Athlenes* Jordan & Fordice, Proc. U. S. Nat. Mus. 1886, 342 (*hians*).**1088. *Athlenes hians* (Cuvier & Valenciennes).**

West Indies, from Florida to Brazil; Acapulco.

*Belone hians* Cuvier & Valenciennes, Hist. Nat. Poiss., XVIII, 432, 1846, Havana; Bahia.**Family XCV. *HEMIRAMPHIDÆ*. The Balaos.****Genus 327. *CHRIODORUS* Goode & Bean. *Hardheads*.***Chriodorus* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 432 (*atherinoides*).**1089. *Chriodorus atherinoides* Goode & Bean. *Hardhead*.**

Florida Keys.

*Chriodorus atherinoides* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 432, Key West, Florida.**Genus 328. *HYPORHAMPHUS* Gill. *Halfbeaks*.***Hyporhamphus* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 131 (*tricuspidatus* = *unifasciatus*.)**1090. *Hyporhamphus unifasciatus* (Ranzani). *Escribano*.**

Key West to Rio Janeiro; Panama; East Indies or Africa.

*Hemiramphus unifasciatus* Ranzani, Nov. Comn. Ac. Sci. Bonon., v, 1842, 326, Brazil.**1091. *Hyporhamphus roberti* (Cuvier & Valenciennes). *Common Halfbeak; Pajarito*.**

Coasts of America; Newport, Rhode Island; Longport and Beesley Point, New Jersey; Fortress Monroe, Virginia; Beaufort, North Carolina; Charleston; Pensacola; San Sebastian River; Cedar Keys; New Orleans; Mazatlan; Guaymas; Cape San Lucas; La Paz; Panama; Chatham and Indefatigable Islands of the Galapagos.

*Hemirhamphus roberti* Cuvier & Valenciennes, Hist. Nat. Poiss., XIX, 24, 1846, Cayenne.**1092. *Hyporhamphus rosæ* (Jordan & Gilbert).**

Southern California and southward.

*Hemiramphus rosæ* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 335, San Diego, California.**Genus 329. *HEMIRAMPHUS* Cuvier.***Hemiramphus* Cuvier, Règne Animal, ed. I, II, 1817 (*brasiliensis*).**1093. *Hemiramphus brasiliensis* (Linnæus). *Balaó; Escribano*.**

West Indies; Key West southward to Bahia.

*Esox brasiliensis* Linnæus, Syst. Nat., ed. x, 314, 1758, Jamaica; after Browne; the *Timucu* of Maregrave wrongly included in the synonymy; Bloch, Ichth., 391, 1801, corrected synonymy and description.**1094. *Hemiramphus balao* LeSueur. *Balaó; Piper*.**

West. Cuba; also known from Panama.

*Hemirhamphus balao* LeSueur, Jour. Ac. Nat. Sci. Phila., II, 1823, 136, Lesser Antilles.**Genus 330. *EULEPTORHAMPHUS* Gill.***Euleptorhamphus* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 131 (*brevoorti*).**1095. *Euleptorhamphus velox* Poey.**

West Indies northward in the Gulf Stream to Massachusetts.

*Euleptorhamphus velox* Poey, Synopsis, 383, 1867, Cuba.



Family XCVI. SCOMBERESOCIDÆ. The Sauries.

Genus 331. SCOMBERESOX Lacépède. *Sauries*.

*Scomberesox* Lacépède, Hist. Nat. Poiss., v, 344, 1803 (*camperii*).

1096. *Scomberesox saurus* (Walbaum). *Saury*; *Skipper*; *Billfish*.

Atlantic Ocean, north of Cape Cod and France.

*Esox saurus* Walbaum, Artedi Pisc., III, 93, 1792, Cornwall; after the *Saury Pike* of Pennant.

Genus 332. COLOLABIS Gill.

*Cololabis* Gill, Proc. U. S. Nat. Mus. 1896, 176 (*brevirostris*).

1097. *Cololabis brevirostris* (Peters).

Coast of California; Tomales Bay and San Francisco.

*Scomberesox brevirostris* Peters, Monatsberichte Akad. Wiss. Berl., July, 1866, 521, Tomales Bay, California.

Family XCVII. EXOCÆTIDÆ. The Flying-Fishes.

Genus 333. FODIATOR Jordan & Meek.

*Fodiator* Jordan & Meek, Proc. U. S. Nat. Mus. 1885, 45 (*acutus*).

1098. *Fodiator acutus* (Cuvier & Valenciennes). *Sharp-nosed Flying-fish*.

Both shores of Tropical America; Gulf of California; San Luis Gonzales; Panama; Nice.

*Exocætus acutus* Cuvier & Valenciennes, Hist. Nat. Poiss., 125, 1849, Surinam; Nice.

Genus 334. PAREXOCÆTUS Bleeker.

*Parexocætus* Bleeker, Nederl. Tydschr. Dierk., III, 106, 1865 (*mento*).

1099. *Parexocætus mesogaster* (Bloch).

Tropical seas; East Indies and West Indies; Hawaiian Islands; Newport, Rhode Island; Carolina coast.

*Exocætus mesogaster* Bloch, Ichth., pl. 399, 1795, Martinique; on a drawing by Plumier, in which the pectorals and ventrals are much too long.

Genus 335. EXOCÆTUS (Artedi) Linnæus. *Flying-fishes*.

*Exocætus* Artedi (Genera Piscium, 6, 1738); Linnæus, Syst. Nat., ed. x, 316, 1758 (*volitans*).

1100. *Exocætus volitans* Linnæus.

Warm seas; Newfoundland; England; Hawaiian Islands. *Japan*

*Exocætus volitans* Linnæus, Syst. Nat., ed. x, 316, 1758.

Genus 336. EXONAUTES Jordan & Evermann.

*Exonautes*, new genus (*exsiliens*).

1101. *Exonautes exsiliens* (P. L. S. Müller).

Open seas.

*Exocætus exsiliens* Philip Ludwig Statius Müller, Nuremberg ed. Linnæus Syst. Nat., 209, 1776, Carolina.

1102. *Exonautes rondeletii* (Cuvier & Valenciennes).

Tropical seas; Florida; France; Acapulco; West Indies; southern Europe.

*Exocætus rondeletii* Cuvier & Valenciennes, Hist. Nat. Poiss., XIX, 115, 1846, Naples; Sicily; Canaries.

1103. *Exonautes vinciguerræ* (Jordan & Meek).

Open Atlantic; southern Europe; Newfoundland; St. Martins; Gulf of Mexico.

*Exocætus vinciguerræ* Jordan & Meek, Proc. U. S. Nat. Mus. 1885, 56, open sea off Newfoundland, 46° N., 61° W.

Egocochus holubi. Stand. in  
Collett, Humble. 723.  
Ex obtinens  
Coll. Nichol. Miami Fla.  
Copeia July 20, 1922 (as H. Sme)

NOBITOR.

Ereonautes affinis may be distinct

Gorica

♂ subgenus Ereonautes.

**1104. *Exonantes speculiger* (Cuvier & Valenciennes).**

Open seas; Atlantic Coast; Grand Banks; southern Europe; Hawaiian Islands.

*Exocetus speculiger* Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 93, 1846, Friendly Islands, etc.

**1105. *Exonantes rufipinnis* (Cuvier & Valenciennes).**

Tropical America; Payta; Panama; Tobasco; Barbados.

*Exocetus rufipinnis* Cuvier & Valenciennes, Hist. Nat. Poiss., xix, 99, 1846, Payta, Peru.

**Genus 337. *CYPSILURUS* Swainson.**

*Cypsilurus* Swainson, Class. Fishes, etc., ii, 296, 1839 (*nuttalli*).

**1106. *Cypsilurus heterurus* (Rafinesque).**

Atlantic Ocean; Newfoundland; England.

*Exocetus heterurus* Rafinesque, Caratteri di Alcuni Nuovi Generi, etc., 58, 1810, Palermo.

**1107. *Cypsilurus lutkeni* (Jordan & Evermann).**

Cape San Antonio.

*Exocetus lutkeni* Jordan & Evermann, Fishes North and Middle America, 736, 1896, Cape San Antonio.

**1108. *Cypsilurus furcatus* (Mitchill).**

Warm seas; north to Cape Cod and to the Mediterranean.

*Exocetus furcatus* Mitchill, Trans. Lit. Phil. Soc. N. Y., i, 1815, 149, New York.

**1109. *Cypsilurus nigricans* (Bennett).**

Tropical seas; north to Cuba, Central America, and France.

*Exocetus nigricans* Bennett, Whaling Voyage, ii, 287, 1840, taken in both the Atlantic and Pacific oceans, in latitude 5° N.

**1110. *Cypsilurus xenopterus* (Gilbert).**

Clarion Island, one of the Revillagigedo Islands.

*Exocetus xenopterus* Gilbert, Proc. U. S. Nat. Mus. 1890, 58, Clarion Island.

**1111. *Cypsilurus lineatus* (Cuvier & Valenciennes).**

Tropical Atlantic; Korea; the Canaries; Madeira and Bermuda.

*Exocetus lineatus* Cuvier & Valenciennes, Hist. Nat. Poiss., xix, 92, 1836, Korea; Canaries.

**1112. *Cypsilurus cyanopterus* (Cuvier & Valenciennes).**

Coasts of Brazil and Caribbean Sea.

*Exocetus cyanopterus* Cuvier & Valenciennes, Hist. Nat. Poiss., xix, 98, 1846, Bahia; Rio de Janeiro.

**1113. *Cypsilurus bahiensis* (Ranzani).**

Tropical seas; north to Cuba and the Galapagos Islands.

*Exocetus bahiensis* Ranzani, Nov. Com. Ac. Sci. Inst. Bonon., v, 1842, 362, pl. 38, Bahia.

**1114. *Cypsilurus californicus* (Cooper). *Great Flying-fish; Volador.***

Southern California; Point Conception to Cape San Lucas; Santa Barbara Islands.

*Exocetus californicus* Cooper, Proc. Cal. Ac. Sci., iii, 1864, 93, fig. 20, Santa Catalina Island.

**1115. *Cypsilurus callopterus* (Günther).**

Panama.

*Exocetus callopterus* Günther, Cat., vi, 292, 1866, Panama.

**1116. *Cypsilurus gibbifrons* (Cuvier & Valenciennes).**

Atlantic Ocean; Newport, Rhode Island.

*Exocetus gibbifrons* Cuvier & Valenciennes, Hist. Nat. Poiss., xix, 118, 1846, Atlantic.

Order Z. HEMIBRANCHII. The Hemibranchs.

Family XCVIII. GASTEROSTEIDÆ. The Sticklebacks.

Genus 338. EUCALIA Jordan.

*Eucalia* Jordan, Man. Vert., ed. 1, 248, 1876 (*inconstans*).

1117. *Eucalia inconstans* (Kirtland). *Brook Stickleback*.

New York to Kansas and northward to the Saskatchewan; Great Lakes region; central Ohio and Illinois.

*Gasterosteus inconstans* Kirtland, Bost. Jour. Nat. Hist., III, 1841, 273, Trumbull County, Ohio.

1117a. *Eucalia inconstans cayuga* Jordan.

Ithaca and Syracuse, New York.

*Eucalia inconstans cayuga* Jordan, Man. Vert., ed. 1, 249, 1876, Cayuga Lake, Ithaca, New York.

1117b. *Eucalia inconstans pygmæa* (Agassiz).

Lake Superior.

*Gasterosteus pygmaeus* Agassiz, Lake Superior, 314, 1850, Lake Superior.

Genus 339. PYGOSTEUS Brevoort.

*Pygosteus* Brevoort, in Gill, Cat. Fish. East Coast N. A., 39, 1861, name only.

1118. *Pygosteus pungitius* (Linnæus). *Nine-spined Stickleback*.

Northern Europe; Atlantic coasts of America; Long Island to the Arctic Sea; tributaries of the Great Lakes.

*Gasterosteus pungitius* Linnæus, Syst. Nat., ed. x, 1758, 296; after *Gasterosteus aculeis decem* Artedi.

1118a. *Pygosteus pungitius brachypoda* (Bean).

Mountain lakes and streams about Baffin Bay.

*Gasterosteus pungitius brachypoda* Bean, Bull. U. S. Nat. Mus., xv, 1879, 129, (Osboodib; Baffin Bay).

Genus 340. GASTEROSTEUS (Artedi) Linnæus. *Sticklebacks*.

*Gasterosteus* (Artedi) Linnæus, Syst. Nat., x, 489, 1758 (*aculeatus*).

1119. *Gasterosteus aculeatus* Linnæus. *European Stickleback*; *Burnstickle*.

Coasts and streams of northern Europe; Greenland.

*Gasterosteus aculeatus* Linnæus, Syst. Nat., ed. x, 1, 489, 1758, Europe.

1120. *Gasterosteus bispinosus* Walbaum. *Common Eastern Stickleback*.

Labrador to New Jersey; New England.

*Gasterosteus bispinosus* Walbaum, Artedi, Pisc., 450, 1792, after Pennant: said to be "New York," but more likely Hudson Bay.

1120a. *Gasterosteus bispinosus atkinsi* Bean.

Quebec; Maine.

*Gasterosteus atkinsi* Bean, Proc. U. S. Nat. Mus. 1879, 67, Schoodic Lakes, Maine.

1120b. *Gasterosteus bispinosus cuvieri* Girard.

East coast of North America from Labrador to Massachusetts.

*Gasterosteus cuvieri* Girard, in Storer's Fishes of Nova Scotia and Labrador, 254, pl. 7, fig. 1, 1849, Bras d'Or, Red Bay, Labrador.

1121. *Gasterosteus gladiunculus* Kendall.

Off coast of Maine, in floating fucus and other seaweed.

*Gasterosteus gladiunculus* Kendall, Proc. U. S. Nat. Mus., XVIII, 1896, 623, off coast of Maine, near Seguin Island.

1122. *Gasterosteus cataphractus* (Pallas). *Alaska Stickleback*; *Salmon-killer*.

San Francisco to Alaska and Kamchatka.

*Gasteracanthus cataphractus* Pallas, Mém. Acad. Petersb., III, 325, 1811, Kamchatka.

These species cannot be maintained as such.  
Regan *Trichos* all are one.

4. *sanctae-annae* Regan  
Santa Ana R. Cal. <sup>marked</sup>  
29 <sup>marked</sup> 32 <sup>marked</sup>



**1123. *Gasterosteus williamsoni* Girard.**

Streams of southern California from Ventura County to Santa Ana River; Williamson Pass near Saugus, Ventura County; San Bernardino; and Santa Ana River at Colton.

*Gasterosteus williamsoni* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 133, Williamson Pass, California.

**1123a. *Gasterosteus williamsoni microcephalus* (Girard). *California Stickleback*.**

Pacific Coast of the United States in streams and brackish water; Alaska to Todos Santos, Lower California.

*Gasterosteus microcephalus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 133, Four Creeks (Kaweah River), tributary to Tule Lake (Tulare Lake), San Joaquin Valley, California.

**Genus 341. *APELTES* DeKay.**

*Apeltes* DeKay, New York Fauna: Fishes, 67, 1842 (*quadracus*).

**1124. *Apeltes quadracus* (Mitchill).**

Maine to New Jersey in salt water.

*Gasterosteus quadracus* Mitchill, Trans. Lit. and Phil. Soc., 1, 1815, 430, New York.

**Family XCIX. AULORHYNCHIDÆ.****Genus 342. AULORHYNCHUS Gill.**

*Aulorhynchus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 169 (*flavidus*).

**1125. *Aulorhynchus flavidus* Gill.**

Coast of California from San Nicolas Island and Monterey northward to Sitka, Alaska.

*Aulorhynchus flavidus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 169, coast of Washington.

**Family C. AULOSTOMIDÆ. The Trumpet-Fishes.****Genus 343. AULOSTOMUS Lacépède.**

*Aulostomus* Lacépède, Hist. Nat. Poiss., v, 357, 1803 (*chinensis*).

**1126. *Aulostomus maculatus* Valenciennes. *Trompetero*.**

Caribbean Sea, north to southern Florida.

*Aulostoma maculatum* Valenciennes, in Cuvier, Illust. Poiss., pl. 92, fig. 2, about 1845.

**1127. *Aulostomus cinereus* Poey**

Cuba.

*Aulostoma cinereum* Poey, Synopsis, 386, 1867, Cuba.

**Family CI. FISTULARIIDÆ. The Cornet-Fishes.****Genus 344. FISTULARIA Linnæus.**

*Fistularia* Linnæus, Syst. Nat., ed. x, 312, 1758 (*tabacaria*).

**1128. *Fistularia tabacaria* Linnæus. *Trumpet-fish; Trompetero*.**

West Indies and neighboring seas; northward to Carolina and Florida, and occasionally to Long Island.

*Fistularia tabacaria* Linnæus, Syst. Nat., ed. x, 312, 1758, Tropical America.

**1129. *Fistularia depressa* Günther. *Corneta*.**

East Indies, Australia, China, Panama, and Lower California.

*Fistularia depressa* Günther, Report on the Shore Fishes, Challenger Report, 69, pl. 32, Fig. D, 1880.

**1130. *Fistularia petimba* Lacépède.**

Western Pacific; Bermudas; Cuba.

*Fistularia petimba* Lacépède, Hist. Nat. Poiss., v, 349, 1803, New Britain, Isle of Reunion, equatorial Pacific.



**Family CII. MACRORHAMPHOSIDÆ. The Snipe-Fishes.**

**Genus 345. MACRORHAMPHOSUS** Lacépède. *Snipe-fishes.*

*Macrorhamphosus* Lacépède, Hist. Nat. Poiss., v, 136, 1803 (*cornutus* = *scolopax*).

- 1131. *Macrorhamphosus scolopax* (Linnæus).** *Snipe-fish; Trumpet-fish; Hollow-fish.*

Mediterranean Sea; northward to southern England; accidental on our North Atlantic Coast.

*Balistes scolopax* Linnæus, Syst. Nat., ed. x, 329, 1758, Mediterranean.

**Order AA. LOPHOBRANCHII. The Lophobranchs.**

**Suborder SYNGNATHI.**

**Family CIII. SYNGNATHIDÆ. The Pipefishes.**

**Genus 346. SIPHOSTOMA** Rafinesque.

*Siphostoma* Rafinesque, Caratteri Nuovi Generi, 18, 1810 (*pelagicus*).

**Subgenus DERMATOSTETHUS** Gill.

*Dermatostethus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 283 (*punctipinnis*).

- 1132. *Siphostoma punctipinne* (Gill).**

San Diego, California.

*Dermatostethus punctipinnis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 283. San Diego, California.

**Subgenus SIPHOSTOMA** Rafinesque.

- 1133. *Siphostoma carinatum* Gilbert.**

Gulf of California.

*Siphostoma carinatum* Gilbert, Proc. U. S. Nat. Mus. 1891, 547, Gulf of California, 31° 31' N., 114° 19' W., at Albatross Stations 3027 and 3028.

- 1134. *Siphostoma californiense* (Storer).**

Santa Barbara and Monterey; from Santa Barbara northward.

*Syngnathus californiensis* Storer, Proc. Bost. Soc. Nat. Hist., II, 1845, 73, California.

- 1135. *Siphostoma griseolineatum* (Ayres).**

Pacific Coast of the United States, from Puget Sound to Monterey.

*Syngnathus griseolineatus* Ayres, Proc. Cal. Ac. Sci. 1854, 14, San Francisco Bay.

- 1136. *Siphostoma leptorhynchum* (Girard).**

West coast of America from San Francisco to San Diego.

*Syngnathus leptorhynchus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 156, San Diego, California.

- 1137. *Siphostoma fistulatum* (Peters).**

Puerto Cabello, near Aspinwall.

*Syngnathus fistulatus* Peters, Monatsber. Ak. Wiss. Berk., 456, 1868, Puerto Cabello, near Aspinwall.

- 1138. *Siphostoma barbaræ* Swain.**

California coast, at Santa Barbara.

*Siphostoma barbaræ* Swain, Proc. U. S. Nat. Mus. 1884, 238, Santa Barbara, California.

- 1139. *Siphostoma mackayi* Swain & Meek.**

Key West, Florida, and south to Yucatan.

*Siphostoma mackayi* Swain & Meek, Proc. U. S. Nat. Mus. 1884, 239, Key West, Florida.



1143. European: doubtfully  
american.

- 1140. *Siphostoma floridae* Jordan & Gilbert.**  
Beaufort, North Carolina, to Corpus Christi, Texas.  
*Siphostoma floridae* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 263, Pensacola, Florida.
- 1141. *Siphostoma poeyi* Jordan & Evermann.**  
Havana.  
*Siphostoma poeyi* Jordan & Evermann, Fishes North and Middle America, 766, 1896, Havana, Cuba.
- 1142. *Siphostoma auliscus* Swain.**  
Southern California.  
*Siphostoma auliscus* Swain, Proc. U. S. Nat. Mus. 1882, 310, Santa Barbara and San Diego, California.
- 1143. *Siphostoma pelagicum* (Osbeck).**  
Tropical parts of the Atlantic; north to the West Indies and the Mediterranean.  
*Syngnathus pelagicus* Osbeck, Dagbök Resa Ostind., 305, 1757, open sea in floating seaweed.
- 1144. *Siphostoma rousseau* (Kaup).**  
West Indies; known from Jamaica, St. Lucia, and Martinique.  
*Syngnathus rousseau* Kaup, Lophobranchii, 40, 1856, Martinique.
- 1145. *Siphostoma elucens* (Poey).**  
Cuba.  
*Syngnathus elucens* Poey, Synopsis, 443, 1867, Havana, Cuba.
- 1146. *Siphostoma jonesi* (Günther).**  
Bermuda Islands.  
*Syngnathus jonesi* Günther, Ann. and Mag. Nat. Hist., series 4, XIV, 1874, 8, Bermudas.
- 1147. *Siphostoma robertsi* Jordan & Rutter.**  
Known only from Jamaica.  
*Siphostoma robertsi* Jordan & Rutter, Fishes of Jamaica, in Proc. Ac. Nat. Sci. Phila. 1896, Jamaica.
- 1148. *Siphostoma brachycephalum* (Poey).**  
Cuba.  
*Syngnathus brachycephalus* Poey, Synopsis, 444, 1867, Havana, Cuba.
- 1149. *Siphostoma affine* (Günther).**  
Gulf of Mexico, on coast of Louisiana.  
*Syngnathus affinis* Günther, Cat., VIII, 163, 1870, Louisiana.
- 1150. *Siphostoma scorelli* Evermann & Kendall.**  
Coast of Texas and both coasts of Florida.  
*Siphostoma scorelli* Evermann & Kendall, Proc. U. S. Nat. Mus., XVIII, 1895 (1896), 109, Corpus Christi, Texas.
- 1151. *Siphostoma bairdianum* (Duméril).**  
West coast of Mexico, near California.  
*Syngnathus bairdianus* Duméril, Hist. Nat. Poiss., II, 574, 1870, "Coast of Mexico, near California."
- 1152. *Siphostoma louisianæ* (Günther).**  
Atlantic and Gulf coasts of the United States, North Carolina to Texas and south to Key West.  
*Syngnathus louisianæ* Günther, Cat., VIII, 160, 1870, New Orleans, Louisiana.
- 1153. *Siphostoma fuscum* (Storer). Common Pipefish.**  
Atlantic Coast of United States from Maine to Virginia.  
*Syngnathus fuscus* Storer, Rept. Fish. Mass., 162, 1839, Nahant, Massachusetts.

1154. *Siphostoma starksi* Jordan & Culver.

Rio Presidio, Sinaloa, Mexico.

*Siphostoma starksi* Jordan & Culver, in Jordan, Fishes of Sinaloa. 116. 1895, Rio Presidio, Mazatlan, Mexico.

1155. *Siphostoma arcum* Jenkins & Evermann.

Gulf of California; Guaymas.

*Siphostoma arcum* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 137. Bay of Guaymas, Sonora, Mexico.

1156. *Siphostoma sinaloæ* Jordan & Starks.

Pacific coast of Mexico.

*Siphostoma sinaloæ* Jordan & Starks, Proc. Cal. Ac. Sci. 1896, Mazatlan, Mexico.

1157. *Siphostoma crinigerum* Bean & Dresel.

Pensacola and Key West, to Abrolhos Reef, Brazil.

*Siphostoma crinigerum* Bean & Dresel, Proc. Biological Soc. Washington. 11. 1884, 99, Pensacola, Florida.

Subgenus *CORYTHOICHTHYS* Kaup.

*Corythoichthys* Kaup, Lophobranchii, 25, 1856 (*albirostris*); not of Linnaeus as restricted by Rafinesque.

1158. *Siphostoma albirostre* (Heckel).

West Indies; north to Pensacola and Key West; south to Bahia.

*Corythoichthys albirostris* Heckel, in Kaup, Lophobranchii, 25, 1856, Mexico; Bahia.

1159. *Siphostoma cayennense* (Sanvage).

Cayenne.

*Syngnathus cayennensis* Sanvage, Bull. Soc. Philom. Paris, 1882, 176. Cayenne.

Genus 347. *DORYRHAMPHUS* Kaup.

*Doryrhamphus* Kaup, Lophobranchii, 54, 1856 (*excisus*).

Subgenus *DORYICHTHYS* Kaup.

*Doryichthys* Kaup, Lophobranchii, 56, 1856 (*bilineatus*).

1160. *Doryrhamphus lineatus* (Valenciennes).

Tropical parts of Atlantic from Cuba to Africa.

*Doryichthys lineatus* Valenciennes, in Kaup, Lophobranchii, 59, 1856, Bahia, Mexico, and Guadeloupe.

Subgenus *DORYRHAMPHUS* Kaup.

1161. *Doryrhamphus californiensis* Gill.

Gulf of California.

*Doryrhamphus californiensis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 284, Cape San Lucas.

Genus 348. *SYNGNATHUS* Linnaeus.

*Syngnathus* Linnaeus, Artedi Genera Piscium, 1738 (*acus*, *typhle*, etc.)

Subgenus *SYNGNATHUS* Linnaeus.

1162. *Syngnathus æquoreum* Linnaeus. *Ocean Pipefish*.

Northern and western coasts of Europe; open Atlantic; Gulf of Mexico.

*Syngnathus æquoreus* Linnaeus, Syst. Nat., ed. x, 417, 1758, open sea.

Genus 349. *OSPHYOLAX* Cope.

*Osphyolar* Cope, Proc. Ac. Nat. Sci. Phila. 1875, 450 (*pellucidus*).

1163. *Osphyolax pellucidus* Cope.

*Osphyolar pellucidus* Cope, Proc. Ac. Nat. Sci. Phila. 1875, 450, pl. 25, figs. 1 to 4, open Atlantic Ocean.

*Corythorichthys cristigalli*. Sw. & Kendall  
Key West

doubtfully American  
~~Callit~~ *Syngnathus heckeli* Kaup.

*hammoeampes nanus*  
Rene, Indro,  
Dundee, 1916.

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## Family CIV. HIPPOCAMPIDÆ. The Sea-Horses.

Genus 350. HIPPOCAMPUS Rafinesque.

*Hippocampus* Rafinesque, Indice d'Ittiologia Siciliana, 37, 1810 (*hippocampus*).1164. *Hippocampus ingens* Girard. *Caballito del Mar*.

Pacific Coast from San Diego to Mazatlan.

*Hippocampus ingens* Girard, Pac. R. R. Surv., Fishes, 342, 1858, San Diego, Cal.1165. *Hippocampus hudsonius* DeKay. *Common American Sea-horse*.

West Coast of northern Mexico, Mazatlan to San Diego, California.

Atlantic Coast of United States, from Cape Cod southward to Charleston.

*Hippocampus hudsonius* DeKay, N. Y. Fauna: Fishes, 322, pl. 53, fig. 171, 1842, New York.1166. *Hippocampus punctulatus* Guichenot. *Caballito del Mar*; *Sea-horse*.

Tropical parts of the Atlantic; common in the West Indies, Brazil, and western Africa; Gulf Stream; Beaufort, North Carolina.

*Hippocampus punctulatus* Guichenot, in Sagra, Cuba, Poiss., 174, pl. 5, fig. 2, 1850, Cuba.1167. *Hippocampus stylifer* Jordan & Gilbert.

Coasts of Florida; "Snapper Banks" off Pensacola and Tampa; Gulf Stream.

*Hippocampus stylifer* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 265, "Snapper Banks," Gulf of Mexico.1168. *Hippocampus zosterae* Jordan & Gilbert.

Pensacola Bay, Florida.

*Hippocampus zosterae* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 265, Grand Lagoon, Pensacola, Florida.

## Order BB. ACANTHOPTERI. The Spiny-rayed Fishes.

## Suborder SALMOPERCÆ. The Trout Perches.

## Family CV. PERCOPSIDÆ. The Sand-Rollers.

Genus 351. PERCOPSIS Agassiz.

*Percopsis* Agassiz, Lake Superior, 284, 1850 (*guttatus*).1169. *Percopsis guttatus* Agassiz. *Sand-Roller*; *Trout Perch*.

Lake Champlain and Delaware River to Ohio River, Kansas, and northward; Great Lakes; Hudson Bay; Red River of the North; Saskatchewan River.

*Percopsis guttatus* Agassiz, Lake Superior, 286, 1850, Lake Superior.

Genus 352. COLUMBIA Eigenmann &amp; Eigenmann.

*Columbia* Eigenmann & Eigenmann, Science, October 21, 1892, 233 (*transmontana*).1170. *Columbia transmontana* Eigenmann & Eigenmann.

Columbia River basin; Umatilla and Wallula rivers.

*Columbia transmontana* Eigenmann & Eigenmann, Science, 1892, 233, mouth of Umatilla River, Oregon.

## Suborder XENARCHI.

## Family CVI. APHREDODERIDÆ. The Pirate Perches.

Genus 353. APHREDODERUS LeSueur. *Pirate Perches*.*Aphredoderus* LeSueur, in Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 443, 1833 (*gibbosus* = *sayanus*).1171. *Aphredoderus sayanus* (Gilliams). *Pirate Perch*.

From New York in coastwise streams to Texas; also in the Mississippi Basin north to Michigan.

*Scolopsis sayanus* Gilliams, Jour. Ac. Nat. Sci. Phila., iv, 1824, 81, near Philadelphia.



## Suborder PERCESOCES.

Family CVII. ATHERINIDÆ. *The Silversides.*

## Genus 354. ATHERINA (Artedi) Linnaeus.

*Atherina* Artedi, in Linnæus, Syst. Nat., ed. x, 315, 1758 (*hepectus*).1172. *Atherina stipes* Müller & Troschel.

Barbados.

*Atherina stipes* Müller & Troschel, in Schomburgk, Hist. Barbadoes, 671, 1848, Barbados.1173. *Atherina laticeps* Poey. *Cabezote; Bristle Herring.*

Caribbean Sea, north to western Florida; Key West, Havana, Jamaica, and Cozumel.

*Atherina laticeps* Poey, Memorias, II, 265, 1861, Havana.1174. *Atherina aræa* Jordan & Gilbert.

Gulf of Mexico, at Key West and Cozumel.

*Atherina aræa* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 27, Key West, Florida.1175. *Atherina harringtonensis* Goode.

Bermudas.

*Atherina harringtonensis* Goode, Am. Jour. Sci. and Arts, 3d series, XIV, No. 82, 1877, 297, Bermuda Islands.1176. *Atherina carolina* Cuvier & Valenciennes.

South Carolina.

*Atherina carolina* Cuvier & Valenciennes, Nat. Hist. Poiss., x, 445, 1835, South Carolina.1177. *Atherina microps* Poey.

Havana.

*Atherina microps* Poey, Memorias, II, 266, 1861, Havana, Cuba.

## Genus 355. CHIROSTOMA Swainson.

*Chirostoma* Swainson, Class. Fishes, etc., 243, 1839 (*humboldtianum*).1178. *Chirostoma estor* Jordan. *Pescado Blanco de Chapala.*

Lake Chapala, Guanajuato.

*Chirostoma estor* Jordan, Proc. U. S. Nat. Mus. 1879, 298, Lake Chapala, Mexico.1179. *Chirostoma humboldtianum* (Cuvier & Valenciennes).

Lake near the City of Mexico.

*Atherina humboldtiana* Cuvier & Valenciennes, Hist. Nat. Poiss., x, 479, 1835, lake at City of Mexico.1180. *Chirostoma grandocule* (Steindachner). *Guerepo.*

Lake Pátzcuaro, Mexico.

*Atherinichthys grandoculis* Steindachner, Anzeiger der kais. Akad. d. Wissensch. Wien, 1894, 149, Lake Pátzcuaro, near the City of Mexico.

## Genus 356. ESLOPSARUM Jordan &amp; Evermann.

*Eslopsarum*, new genus (*jordani*).1181. *Eslopsarum jordani* (Woolman).

City of Mexico; tributaries of Rio de Lerma, Mexico.

*Chirostoma jordani* Woolman, Bull. U. S. Fish. Com. 1894, 62, pl. 2, canals in City of Mexico; Rio de Lerma at Salamanca, Mexico.1182. *Eslopsarum bartoni* (Jordan & Evermann).

Tributary of the Rio Lerma, near Guanajuato, Mexico.

*Chirostoma bartoni* Jordan & Evermann, Fishes North and Middle America, 793, 1896, tributary of the Rio Lerma, near Guanajuato, Mexico.



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**Genus 357. KIRTLANDIA Jordan & Evermann.**

*Kirtlandia* Jordan & Evermann, Fishes North and Middle America, 794, 1896 (*vagrans*).

**1183. *Kirtlandia vagrans* (Goode & Bean).**

Coast of Gulf of Mexico, Florida to Texas.

*Chirostoma vagrans* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 148, Pensacola, Florida.

**1184. *Kirtlandia martinica* (Cuvier & Valenciennes).**

Martinique.

*Atherina martinica* Cuvier & Valenciennes, Hist. Nat. Poiss., x, 459, 1835, Martinique.

**1185. *Kirtlandia laciniata* (Swain). *Silver-fish*.**

Lower Chesapeake to South Carolina.

*Menidia vagrans laciniata* Swain, in Jordan & Gilbert, Synopsis, 908, 1883, Beaufort, North Carolina.

**Genus 358. MENIDIA Bonaparte.**

*Menidia* Bonaparte, Fauna Italica, about 1836 (no type indicated, *menidia* doubtless intended).

**1186. *Menidia peninsulae* (Goode & Bean).**

Florida and Gulf Coast.

*Chirostoma peninsulae* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 148, Pensacola and Lake Monroe, Florida.

**1187. *Menidia gracilis* (Günther).**

Atlantic Coast, from Massachusetts to Albemarle Sound.

*Atherinichthys gracilis* Günther, Cat., III, 405, 1861, no locality.

**1187a. *Menidia gracilis beryllina* (Cope).**

Potomac River, in fresh water.

*Chirostoma beryllinum* Cope, Trans. Am. Philos. Soc. 1866, 403, Potomac River near Washington.

**1188. *Menidia audens* Hay.**

Mississippi River, in Mississippi and Tennessee.

*Menidia audens* Hay, Bull. U. S. Fish Com. 1882, 64, Memphis, Tenn., and Vicksburg, Miss.

= *m. gracilis*  
fide nichols.

**1189. *Menidia gilberti* Jordan & Bollman.**

Panama.

*Menidia gilberti* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 155, Panama.

**1190. *Menidia sardina* (Jenkins & Evermann). *Pez del Rey*.**

Gulf of California.

*Atherina sardina* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 137, Guaymas, Sonora.

**1191. *Menidia notata* (Mitchill). *Silverside*.**

Atlantic Coast of United States, south to North Carolina.

*Atherina notata* Mitchill, Trans. Lit. and Phil. Soc. N. Y. 1815, 446, New York.

**1192. *Menidia menidia* (Linnæus).**

Atlantic Coast, Cape Hatteras to Florida.

*Atherina menidia* Linnæus, Syst. Nat., ed. XII, 519, 1766, Charleston, S. C.

**1193. *Menidia clara* Evermann & Jenkins.**

Gulf of California.

*Menidia clara* Evermann & Jenkins, Proc. U. S. Nat. Mus. 1891, 136, Guaymas, Sonora.

**Genus 359. LEURESTHES** Jordan & Gilbert.

*Leuresthes* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 29 (*tenuis*).

**1194. *Leuresthes crameri* Jordan & Evermann.**

Ballenas Bay, Lower California.

*Leuresthes crameri* Jordan & Evermann, Fishes North and Middle America, 802, 1896, Ballenas Bay, Lower California.

**1195. *Leuresthes tenuis* (Ayres).**

Coast of California, from San Francisco to San Diego.

*Atherinopsis tenuis* Ayres, Proc. Cal. Ac. Sci. 1860, 76, San Francisco.

**Genus 360. EURYSTOLE** Jordan & Evermann.

*Eurystole* Jordan & Evermann, Fishes North and Middle America, 812, 1896 (*eriarcha*).

**1196. *Eurystole eriarcha* (Jordan & Gilbert).**

West coast of Mexico; Mazatlan.

*Atherinella eriarcha* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 348, Mazatlan, Mexico.

**Genus 361. THYRINA** Jordan & Culver.

*Thyrina* Jordan & Culver, in Jordan, Fishes Sinaloa, 419, 1895 (*evermanni*).

**1197. *Thyrina evermanni* Jordan & Culver.**

West coast of Mexico; Mazatlan.

*Thyrina evermanni* Jordan & Culver, in Jordan, Fishes Sinaloa, 419, 1895, Mazatlan, Mexico.

**1198. *Thyrina crystallina* Jordan & Culver.**

Rio Presidio, near Mazatlan, Sinaloa.

*Thyrina crystallina* Jordan & Culver, in Jordan, Fishes Sinaloa, 420, 1895, Rio Presidio, below Presidio, Sinaloa.

**1199. *Thyrina guatemalensis* (Günther).**

Lakes of Guatemala.

*Atherinichthys guatemalensis* Günther, Proc. Zool. Soc. Lond. 1864, 151, lakes of Huamuchal, Guatemala.

**1200. *Thyrina pachylepis* (Günther).**

Panama.

*Atherinichthys pachylepis* Günther, Proc. Zool. Soc. Lond. 1864, 25, Panama.

**Genus 362. ATHERINELLA** Steindachner.

*Atherinella* Steindachner, Ichth. Beitr., 11, 35, 1875 (*panamensis*).

**1201. *Atherinella panamensis* Steindachner.**

Panama.

*Atherinella panamensis* Steindachner, Ichth. Beitr., 11, 35, 1875, Panama.

**Genus 363. LABIDESTHES** Cope.

*Labidesthes* Cope, Proc. Amer. Phil. Soc. Phila. 1870, 455 (*sicculum*).

**1202. *Labidesthes sicculus* (Cope). *Brook Silverside; Skipjack.***

Lake Ontario and southern Michigan to Iowa, Florida, and Texas.

*Chirostoma sicculum* Cope, Proc. Ac. Nat. Sci. Phila. 1865, 81, Grosse Isle, Detroit River, Michigan.

**Genus 364. ATHERINOPSIS** Girard. *Pescado del Rey.*

*Atherinopsis* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 134 (*californiensis*).

**1203. *Atherinopsis californiensis* Girard. *California Smelt; Pescado del Rey; Peire Rey; Pece-Rey.***

Coast of California, from Cape Mendocino to San Diego.

*Atherinopsis californiensis* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 134, San Francisco, Cal.





**Genus 365. ATHERINOPS** Steindachner. *Pescadillos del Rey.*

*Atherinops* Steindachner, Ichth. Beitr., III, 61, 1875 (*affinis*).

**1204. *Atherinops insularum* (Gilbert).**

San Clemente and San Nicolas islands of the Santa Barbara group; Guadalupe Island.

*Atherina insularum* Gilbert, Proc. U. S. Nat. Mus. 1891, 549, San Clemente, San Nicolas, and Guadalupe islands.

**1205. *Atherinops affinis* (Ayres). Little "Smelt"; *Pescadillo del Rey.***

Coast of California.

*Atherinopsis affinis* Ayres, Proc. Cal. Ac. Sci. 1860, 73, San Francisco.

**1206. *Atherinops regis* Jenkins & Evermann. *Pez del Rey.***

Gulf of California.

*Atherinops regis* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 138, Bay of Guaymas, Sonora.

**Family CVIII. MUGILIDÆ. The Mullet.**

**Genus 366. MUGIL** (Artedi) Linnæus. *Mullets.*

*Mugil* Artedi, in Linnæus, Syst. Nat., ed. x, 316, 1758 (*cephalus*).

**1207. *Mugil brasiliensis* Agassiz. *Lisa*; *Lebranco*; *Queriman*.**

Cuba to Patagonia; West Indies; Brazil; Havana.

*Mugil brasiliensis* Agassiz, Spix, Pisc. Brasil., 234, pl. 72, 1829, Atlantic Ocean, off Brazil.

**1208. *Mugil cephalus* Linnæus. *Common Mullet*; *Striped Mullet*; *Céfalo*; *Macho*; *Machuto*; *Liza Cabezada*.**

Coasts of southern Europe and northern Africa; Atlantic Coast of America, from Cape Cod to Brazil; Pacific Coast, from Monterey to Chile.

*Mugil cephalus* Linnæus, Syst. Nat., ed. x, 316, 1758, Europe; based on Artedi.

**1209. *Mugil incilis* Hancock. *Trench Mullet*.**

Waters of Central America; Rio Chagres to Pará and Bahia.

*Mugil incilis* Hancock, Quart. Jour. Sci. 1830, 127, Guiana.

**1210. *Mugil thoburni* Jordan & Starks.**

Pacific Coast of Tropical America, from Guatemala to Galapagos.

*Mugil thoburni* Jordan & Starks, in Jordan & Evermann, Fishes North and Middle America, 812, 1896, Galapagos.

**1211. *Mugil curema* Cuvier & Valenciennes. *White Mullet*; *Blueback Mullet*; *Liza*; *Liza Blanca*; *Red-and-black-eyed Mullet*.**

Both coasts of America; Cape Cod to Brazil; Magdalena Bay to Chile.

*Mugil curema* Cuvier & Valenciennes, Hist. Nat. Poiss., XI, 87, 1836, Brazil; Martinique; Cuba.

**1212. *Mugil hospes* Jordan & Culver. *Lizita*.**

West coast of Mexico.

*Mugil hospes* Jordan & Culver, in Jordan, Fishes Sinaloa, 422, pl. 31, 1895, Mazatlan, Mexico.

**1213. *Mugil gaimardianus* Desmarest. *Red-eye Mullet*; *Liza Ojo de Perdiz*.**

Florida Keys to Cuba; Key West.

*Mugil gaimardianus* Desmarest, Dict. Class., pl. 109, 1831, Cuba.

**1214. *Mugil setosus* Gilbert.**

Clarion Island of the Revillagigedo group.

*Mugil setosus* Gilbert, Proc. U. S. Nat. Mus. 1891, 549, Clarion Island.

**1215. *Mugil trichodon* Poey. *Fan-tail Mullet*.**

Florida Keys to Brazil; Key West.

*Mugil trichodon* Poey, Ann. Lyc. Nat. Hist. N. Y., XI, 1875, 66, pl. 8, figs. 4-8, Cuba.



Genus 367. **CHÆNOMUGIL** Gill.

*Chænomugil* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 169 (*proboscideus*).

1216. *Chænomugil proboscideus* (Günther).

Pacific Coast of Tropical America; Mazatlan; Cordova; Panama.

*Mugil proboscideus* Günther, Cat., III, 459, 1861, island of Cordova (Cerdeña), west coast of Central America.

Genus 368. **QUERIMANA** Jordan & Gilbert.

*Querimana* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 588 (*harengus*).

1217. *Querimana harengus* (Günther). *El Verde*.

Pacific Coast of tropical America, from Mazatlan to Peru.\*

*Myrus harengus* Günther, Cat., III, 467, 1861, Pacific Coast of Central America.

1218. *Querimana gyrans* Jordan & Gilbert. *Whirligig Mullet*.

South Atlantic Coast of North America, Woods Hole to Key West, and both coasts of Florida.

*Querimana gyrans* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 26, Key West.

Genus 369. **AGONOSTOMUS** Bennett.

*Agonostomus* Bennett, Proc. Com. Zool. Soc. 1830, 166 (*teleostei*).

Subgenus **DAJANUS** Cuvier & Valenciennes.

*Dajanus* Cuvier & Valenciennes, Hist. Nat. Poiss., xi, 164, 1836 (*monticola*).

1219. *Agonostomus percoideus* Günther.

San Domingo.

*Agonostoma percoideus* Günther, Cat., III, 464, 1861, San Domingo.

1220. *Agonostomus monticola* (Bancroft).

West Indies; eastern Mexico; Vera Cruz.

*Mugil monticola* Bancroft, in Griffith's edition of Cuvier's Animal Kingdom, Fishes, 367, pl. 98, 1836, Jamaica.

1221. *Agonostomus nasutus* Günther. *Trucha*.

Rivers of Central America, and north to Lower California.

*Agonostoma nasutum* Günther, Cat., III, 463, 1861, Rio Geronimo.

1222. *Agonostomus microps* Günther.

West Indies and Central America.

*Agonostoma microps* Günther, Cat., III, 462, 1861, probably West Indies.

Genus 370. **JOTURUS** Poey.

*Joturus* Poey, Memorias, II, 263, 1861 (*pichardi*).

1223. *Joturus pichardi* Poey. *Joturo*; *Bobo*.

Panama; Costa Rica; Cuba; Vera Cruz; Rio Almendares, near Havana.

*Joturus pichardi* Poey, Memorias, II, 263, 1861, cascades throughout Cuba.

Family CIX. **SPHYRÆNIDÆ**. The Barracudas.

Genus 371. **SPHYRÆNA** (Artedi) Bloch & Schneider.

*Sphyræna* Artedi, in Bloch & Schneider, Syst. Ichth., 109, 1801 (*sphyræna*).

1224. *Sphyræna barracuda* (Walbaum). *Great Barracuda*; *Picuda*; *Becnas*; *Short Barracuda*.

West Indies and Brazil, north to Pensacola, Charleston, and the Bermudas.

*Esox barracuda* Walbaum, Artedi Piscium, III, 94, 1792; after Catesby.

1225. *Sphyræna ensis* Jordan & Gilbert. *Picuda*.

Gulf of California to Panama.

*Sphyræna ensis* Jordan & Gilbert, Bull. U. S. Fish

-Bull.





- 1226. *Sphyræna guaguanche* Cuvier & Valenciennes.** *Guaguanche*; *Guaguancha Pelon*; *Long Barracuda*.  
West Indies north to Pensacola; Gulf Stream to Woods Hole.  
*Sphyræna guachancho* Cuvier & Valenciennes, Hist. Nat. Poiss., III, 312, 1829  
(*lapsus* for *guaguanche*), Havana.
- 1227. *Sphyræna pioudilla* Poey.** *Pioudilla*.  
West Indies on the coasts of Cuba; Bahia.  
*Sphyræna pioudilla* Poey, Memorias, II, 162, 1860, Havana.
- 1228. *Sphyræna borealis* DeKay.** *Northern Barracuda*.  
Atlantic Coast of the United States, from Cape Cod to North Carolina.  
*Sphyræna borealis* DeKay, N. Y. Fauna: Fishes, 37, pl. 60, fig. 196, 1842, New York.
- 1229. *Sphyræna argentea* Girard.** *California Barracuda*; *Barracouta*.  
Pacific Coast, from San Francisco southward to Cape San Lucas.  
*Sphyræna argentea* Girard, Proc. Ac. Nat. Sci. Phila. 1854. 144, San Diego, Cal.
- 1230. *Sphyræna sphyræna* (Linnæus)** *European Barracuda*; *Spel*; *Sennet*.  
Coasts of southern Europe and neighboring islands, west to the Bermudas.  
*Esox sphyræna* Linnæus, Syst. Nat., ed. x, 313, 1758, Mediterranean Sea.

## Suborder RHEGNOPTERI.

## Family CX POLYNEMIDÆ. The Threadfins.

- Genus 372. POLYNEMUS (Gronow) Linnæus.** *Pentaneumus*.  
*Polynemus* (Gronow) Linnæus, Syst. Nat., ed. x. 317, 1758 (in part; *quinquarius*; *virginicus*; *paradisæus*).
- 1231. *Polynemus quinquarius* Linnæus.**  
Atlantic Ocean, West Indies to coast of Africa.  
*Polynemus quinquarius* Linnæus, Syst. Nat., ed. x. 317, 1758, America; after Gronow.
- Genus 373. POLYDACTYLUS Lacépède.** *Barbudos*. *TRIPTIDIUM Xylin*  
*Polydactylus* Lacépède, Hist. Nat. Poiss., v. 419, 1852. *plumieri*; *virginicus*; *Polynemus*.
- 1232. *Polydactylus approximans* (Lay & Bennett).** *Raton*.  
Pacific Coast of tropical America, from Guaymas to Panama.  
*Polynemus approximans* Lay & Bennett, Beechey's Voyage, Zool., Fish., 37, 1849, Mazatlan.
- 1233. *Polydactylus virginicus* (Linnæus).** *"Catfish"*.  
West Indies, north to the Florida Keys.  
*Polynemus virginicus* Linnæus, Syst. Nat., ed. x. 317, 1758, America.
- 1234. *Polydactylus octonemus* (Girard).** *Octonemus*.  
New York to the Rio Grande.  
*Polynemus octonemus* Girard, Proc. Ac. Nat. Sci. Phila. 1859. 187. *Hearen* *San* *tiago*; Galveston.
- 1235. *Polydactylus opercularis* (Gill).**  
Pacific Coast of tropical America, from Cape San Lucas to Panama.  
*Trichodon opercularis* Gill, Proc. Ac. Nat. Sci. Phila. 1862. 149. Cape San Lucas.

## Group ANMODYTOIDEI

## Family CXI ANMODYTTIDÆ The Sand Lances

- Genus 374. ANMODYTUS Arndt Linnæus.** *Sand Lances*.  
*Anmodytes* Arndt, in Linnæus, Syst. Nat., ed. x. 207. [For *Anmodytes*]
- 1236. *Anmodytes dubius* Temminck.**  
Coast of Cape Cod.  
*Anmodytes dubius* Temminck, Zool. Tijdschr. Nederl. Ind. 1828. 182. *Coast of*.

**1237. *Ammodytes alascanus* Cope.**

North Pacific Coast of North America, Sitka to Aleutian Islands.  
*Ammodytes alascanus* Cope, Proc. Am. Philos. Soc. 1873, 7, Sitka.

**1238. *Ammodytes americanus* DeKay. Sand Lance; Sand Eel; Lant.**

Newfoundland to Cape Hatteras.  
*Ammodytes americanus* DeKay, N. Y. Fauna: Fishes, 317, 1842, Stratford, Conn.

**1239. *Ammodytes personatus* Girard. Sand Lance.**

Alaska to Monterey, California.  
*Ammodytes personatus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 137, Cape Flattery, Washington.

**Group BERYCOIDEI. The Berycoid Fishes.**

**Family CXII. BATHYCLUPEIDÆ.**

**Genus 375. BATHYCLUPEA Alcock.**

*Bathyclupea* Alcock, Ann. and Mag. Nat. Hist., VIII, 1891, 130 (*hoskynii*).

**1240. *Bathyclupea argentea* Goode & Bean.**

Nevis Island, West Indies, in deep water.  
*Bathyclupea argentea* Goode & Bean, Oceanic Ichthyology, 190, 1896, off Nevis Island, West Indies, at Blake Station 37, in 365 fathoms.

**Family CXIII. STEPHANOBERYCIDÆ.**

**Genus 376. STEPHANOBERYX Gill.**

*Stephanoberyx* Gill, Proc. U. S. Nat. Mus. 1883, 258 (*monæ*).

**1241. *Stephanoberyx monæ* Gill.**

Gulf Stream.  
*Stephanoberyx monæ* Gill, Proc. U. S. Nat. Mus. 1883, 258, Gulf Stream, at Albatross Station 2077, in 1,255 fathoms.

**1242. *Stephanoberyx gillii* Goode & Bean.**

Gulf Stream.  
*Stephanoberyx gillii* Goode & Bean, Oceanic Ichthyology, 187, fig. 206, 1896, Gulf Stream at Albatross Station 2099, in 2,949 fathoms.

**Family CXIV. TRACHICHTHYIDÆ.**

**Genus 377. HOPIOSTETHUS Cuvier & Valenciennes.**

*Hoplostethus* Cuv. & Val., Hist. Nat. Poiss., IV, 469, 1829 (*mediterraneus*).

**1243. *Hoplostethus mediterraneus* Cuvier & Valenciennes.**

Coasts of southern Europe; Gulf Stream.  
*Hoplostethus mediterraneus* Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 469, 1829, Mediterranean Sea.

**Family CXV. BERYCIDÆ. The Berycoids.**

**Genus 378. CAULOLEPIS Gill.**

*Caulolepis* Gill, Forest and Stream, XXI, August 30, 1883, and in Proc. U. S. Nat. Mus., VI, 1884, 258 (*longidens*).

**1244. *Caulolepis longidens* Gill.**

Gulf Stream, in deep water.  
*Caulolepis longidens* Gill, Proc. U. S. Nat. Mus. 1883, 258, Atlantic Ocean, latitude 39° 27' N., longitude 69° 56' 20" W., in 1,346 fathoms.

**Genus 379. ANOPILOGASTER Günther.**

*Anoplogaster* Günther, Cat., I, 12, 1859 (*cornutus*).

**1245. *Anoplogaster cornutus* (Cuvier & Valenciennes).**

North Atlantic, in deep water.  
*Hoplostethus cornutus* Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 270, 1833, from stomach of an albacore, taken at 31° N., 40° W.

Unalaska.

Bering Sea,

also Cortez Banks, off San Diego, Albatross.



**Genus 380. POROMITRA Goode & Bean.***Poromitra* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 214, 1882 (*capito*).**1246. *Poromitra capito* Goode & Bean.**Gulf Stream, in latitude  $34^{\circ}$ .*Poromitra capito* Goode & Bean, Bull. M. C. Z., x, No. 5, 215, 1882, Gulf Stream.**Genus 381. PLECTROMUS Gill.***Plectromus* Gill, Proc. U. S. Nat. Mus. 1883, 257 (*suborbitalis*).**1247. *Plectromus suborbitalis* Gill.**

Gulf Stream, in deep water.

*Plectromus suborbitalis* Gill, Proc. U. S. N. M., vi, 1883, 258,  $38^{\circ} 52' N.$ ,  $69^{\circ} 24' W.$ , at Albatross Stations 2036, 2190, and 2535, in 1,149 to 1,800 fathoms.**1248. *Plectromus lugubris* (Gilbert).**

Coast of California.

*Melamphaes lugubris* Gilbert, Proc. U. S. N. M. 1890 (1891), 59, coast of California, south of Point Conception, at Albatross Station 2923, in 822 fathoms.**1249. *Plectromus beanii* (Günther).**

Gulf Stream.

*Melamphaes beanii* Günther, Deep Sea Fishes, Challenger, xxii, 29, 1887, Gulf Stream, in about latitude  $40^{\circ}$ .**1250. *Plectromus crassiceps* (Günther).**

Mid-Atlantic; Pernambuco.

*Scopelus crassiceps* Günther, Ann. Mag. Nat. Hist., ii, 1878, 185, deep water in mid-Atlantic and off Pernambuco.**1251. *Plectromus cristiceps* (Gilbert).**

Coast of Washington and Oregon.

*Melamphaes cristiceps* Gilbert, Proc. U. S. Nat. Mus. 1890 (1891), 60, coast of Oregon and Washington at Albatross Station 3075, in 859 fathoms.**Genus 382. BERYX Cuvier.***Beryx* Cuvier, Règne Animal, ed. 2, ii, 151, 1829 (*decadactylus*).**1252. *Beryx decadactylus* Cuvier & Valenciennes. *Alfonsin a Casta Larga*.**

Portugal, Madeira, Japan, and Cuba.

*Beryx decadactylus* Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 222, 1829, Madeira or Portugal.**1253. *Beryx splendens* Lowe. *Alfonsin a Casta Cumprida*.**Madeira, Japan, and Gulf Stream at  $35^{\circ} 49' 30'' N.$ ,  $74^{\circ} 34' 45'' W.$ , in 424 fathoms.*Beryx splendens* Lowe, Proc. Zool. Soc. Lond. 1833, 142, Madeira.**Family CXVI. HOLOCENTRIDÆ. The Squirrel-Fishes.****Genus 383. MYRIPRISTIS Cuvier.***Myripristis* Cuvier, Règne Animal, ed. 2, ii, 150, 1829 (*jacobus*).**Subgenus OSTICHTHYS Langsdorf.***Ostichthys* Langsdorf, in Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 174, 1829, name only, passing reference.**1254. *Myripristis trachypoma* Günther.**

West Indies, Cuba.

*Myripristis trachypoma* Günther, Cat., i, 25, 1859, Cuba.**Subgenus MYRIPRISTIS Cuvier.****1255. *Myripristis jacobus* Cuvier & Valenciennes. *Frère Jacques: Candil*.**

West Indies to Brazil.

*Myripristis jacobus* Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 162, 1829, Martinique.



1256. *Myripristis occidentalis* Gill.

West coast of America, from Cape San Lucas to Panama.

*Myripristis occidentalis* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 87, Cape San Lucas.

1257. *Myripristis pœcilopus* (Gill).

West coast of America, from Cape San Lucas to Panama.

*Rhamphoberyz pœcilopus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 87, Cape San Lucas.

Genus 384. **HOLOCENTRUS** Gronow. *Squirrel-fishes.*

*Holocentrus* Gronow, Zoophyl., 65, 1763 (*rostratus*).

1258. *Holocentrus ascensionis* (Osbeck). *Matejuelo; Squirrel-fish; Welshman; Soldado.*

Florida to St. Helena; Cuba.

*Perca ascensionis* Osbeck, Iter Chin., 388, 1771, Ascension Island.

1258a. *Holocentrus ascensionis rufus* (Walbaum).

Bahia; Cuba.

*Perca rufa* Walbaum, Artedi Pisc., 351, 1792, Bahamas; after *perca marina rubra* of Catesby.

1259. *Holocentrus siccifer* Cope.

Bahamas.

*Holocentrum sicciferum* Cope, Trans. Amer. Philos. Soc., xxx, 1866, 465, New Providence, Bahamas.

1260. *Holocentrus suborbitalis* Gill. *Mojarra Cardinal.*

Mazatlan to Panama.

*Holocentrum suborbitale* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 86, Cape San Lucas.

1261. *Holocentrus oorusus* Poey.

West Indies; Cuba and the Bahamas.

*Holocentrum oorusum* Poey, Memorias, II, 158, 1860, Cuba.

1262. *Holocentrus brachypterus* Poey.

Cuba.

*Holocentrus brachypterus* Poey, Repertorio, 184, 1866, Cuba.

1263. *Holocentrus marianus* Cuvier & Valenciennes. *Marian.*

West Indies: Cuba, Jamaica, and Martinique.

*Holoncentrum marianum* Cuvier & Valenciennes, Hist. Nat. Poiss., III, 219, 1829, Martinique.

1264. *Holocentrus vexillarius* Poey.

Cuba.

*Holocentrum vexillarium* Poey, Memorias, II, 158, 1860, Cuba.

1265. *Holocentrus osculus* Poey.

Cuba.

*Holocentrum osculum* Poey, Memorias, II, 156, 1860, Cuba.

1266. *Holocentrus sancti-pauli* Günther.

St. Paul Rocks, mid-Atlantic.

*Holocentrum sancti-pauli* Günther, Shore Fishes, 4, 1880, St. Paul Rocks.

Genus 385. **PLECTRYPOPS** Gill.

*Plectrypops* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 237 (*retrospinis*).

1267. *Plectrypops retrospinis* (Guichenot).

Cuba.

*Holocentrum retrospinis* Guichenot, in Ramon de la Sagra, Hist. Cuba, 35, pl. 1, fig. 3, 1850, Cuba.

*Mynipristis*

- Gilbert  
~~Panama~~

*H. alicifer* + *H. punctulatus* Barbour  
same as coruscus fide Rosen  
Lund Mus. 1911.

new genus?



**Family CXVII. POLYMIXIDÆ. The Barbudos.****Genus 386. POLYMIXIA Lowe.***Polymixia* Lowe, Trans. Cambr. Phil. Soc. 1838, 198 (*nobilis*).**1268. *Polymixia lowei* Günther.**

Caribbean Sea; Cuba.

*Polymixia lowei* Günther, Cat., i, 17, 1859, Caribbean Sea.**Family CXVIII. MULLIDÆ. The Surmulletts.****Genus 387. MULLUS Linnæus. Surmulletts.***Mullus* Linnæus, Syst. Nat., ed. x, 299, 1758 (*barbatus*).**1269. *Mullus auratus* Jordan & Gilbert.**

Eastern coast of North America, Cape Cod to Pensacola.

*Mullus barbatus auratus* Jordan & Gilbert, Proc. J. S. Nat. Mus. 1882, 280, Pensacola, Florida.**Genus 388. MULLOIDES Bleeker.***Mulloidides* Bleeker, Ceram., ii, 697, 1865 (*flavolineatus*).**1270. *Mulloidides rathbuni* (Evermann & Jenkins).**

Gulf of California.

*Upeneus rathbuni* Evermann & Jenkins, Proc. U. S. Nat. Mus. 1891, 158, pl. 2, fig. 4, Bay of Guaymas, Sonora.**Genus 389. UPENEUS Cuvier. Goatfishes.***Upeneus* Cuvier, Règne Animal, ed. 2, vol. 2, 157, 1829 (*vittatus*; *russellii*; *bifasciatus*; *trifasciatus*; restricted by Bleeker to *bifasciatus*).**1271. *Upeneus maculatus* (Bloch). Red Goatfish; Salmonete.**

West Indies and Brazil, Key West to Rio Janeiro.

*Mullus maculatus* Bloch, Ichthyologia, 348, 1793, Brazil.**1272. *Upeneus dentatus* Gill.**

Pacific Coast of Mexico, Cape San Lucas, La Paz, and the Tres Marias Islands.

*Upeneus dentatus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 256, Cape San Lucas.**1273. *Upeneus parvus* Poey.**

Cuba.

*Upeneus parvus* Poey, Memorias, i, 226, 1851, Cuba.**1274. *Upeneus martinicus* Cuvier & Valenciennes. Yellow Goatfish; Salmonete Amarilla; King Mullet.**

West Indies, north to Key West.

*Upeneus martinicus* Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 483, 1829, Martinique.**1275. *Upeneus xanthogrammus* Gilbert.**

La Paz, Lower California.

*Upeneus xanthogrammus* Gilbert, Proc. U. S. Nat. Mus. 1891, 553, La Paz, Lower California.**1276. *Upeneus grandisquamis* Gill. Chiro.**

Pacific Coast of Mexico and Central America, Guaymas to Panama.

*Upeneus grandisquamis* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 168, west coast of Central America.

## Group SCOMBROIDÆ. The Mackerel-like Fishes.

## Family CXIX. SCOMBRIDÆ. The Mackerels.

## Genus 390. SCOMBER (Artedi) Linnæus.

*Scomber* Artedi, in Linnæus, Syst. Nat., ed. x, 297, 1758 (*scombrus*).

## Subgenus SCOMBER (Artedi) Linnæus.

1277. *Scomber scombrus* Linnæus. *Common Mackerel*.

North Atlantic; Norway and Labrador; south to Spain and Cape Hatteras.  
*Scomber scombrus* Linnæus, Syst. Nat., ed. x, 297, 1758, Atlantic.

## Subgenus PNEUMATOPHORUS Jordan &amp; Gilbert.

*Pneumatophorus* Jordan & Gilbert. Proc. U.S. N. M. 1882, 593 (*pneumatophorus*).

1278. *Scomber colias* Gmelin. *Club Mackerel*; *Tinker Mackerel*; *Easter Mackerel*; *Thimble-eyed Mackerel*; "Spanish Mackerel" of England.

Atlantic and Pacific, north to England, Maine, and San Francisco; Mediterranean and southern California.

*Scomber colias* Gmelin, Syst. Nat., ed. xiii, 1329, 1788, Sardinia.

Genus 391. AUXIS Cuvier. *Frigate Mackerels*.

*Auxis* Cuvier, Règne Animal, ed. ii, vol. 2, 119, 1829 (*rochei*).

1279. *Auxis thazard* (Lacépède). *Frigate Mackerel*.

All warm seas, occasionally northward to Cape Cod.

*Scomber thazard* Lacépède, Hist. Nat. Poiss., iii, 9, 1802, 6° and 7° S. lat., coast of New Guinea.

Genus 392. GYMNOSARDA Gill. *Little Tunnies*.

*Gymnosarda* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 125 (*unicolor*).

1280. *Gymnosarda pelamis* (Linnæus). *Oceanic Bonito*. *Pelamys Klein*

Warm seas; north to Cape Cod and Bermudas on the Atlantic Coast.

*Scomber pelamis* Linnæus, Syst. Nat., ed. x, 297, 1758, "in Pelago inter Tropicos."

1281. *Gymnosarda alleterata* (Rafinesque). *Little Tunny*; *Bonito*.

Warm seas; Cape Cod; West Indies; Mediterranean.

*Scomber alleteratus* Rafinesque, Carat. Alcuni Gen., etc., 46, 1810, Palermo.

Genus 393. THUNNUS South. *Great Tunnies*.

*Thunnus* South, Encyclop. Metropol., v, 620, 1845 (*thynnus*).

1282. *Thunnus thynnus* (Linnæus). *Tunny*; *Horse-mackerel*; *Great Albacore*; *Tuna*.

Cape Cod and off all coasts; north to England, Newfoundland, San Francisco, and Japan.

*Scomber thynnus* Linnæus, Syst. Nat., ed. x, 297, 1758, Europe.

Genus 394. GERMO Jordan. *Albacores*.

*Germo* Jordan, Proc. Ac. Nat. Sci. Phila. 1888, 180 (*alalonga*).

1283. *Germo alalonga* (Gmelin). *Long-finned Albacore*; *Albecor*; *Alilonghi*; *Germon*.

Mediterranean; San Francisco; Santa Barbara Islands.

*Scomber alalonga* Gmelin, Syst. Nat., i, 1330, 1788, Sardinia.

Genus 395. SARDA Cuvier. *Bonitos*.

*Sarda* Cuvier, Règne Animal, ed. 2, ii, 199, 1829 (*pelamys* = *sarda*).

1284. *Sarda sarda* (Bloch). *Bonito*.

Atlantic Ocean, on both coasts, north to Cape Cod.

*Scomber sarda* Bloch, Ichthyologia, x, 35, pl. 334, 1793, Europe.

1285. *Sarda chilensis* (Cuvier & Valenciennes). *California Bonito*; *Skipjack*.

San Francisco to Patagonia and Japan.

*Pelamys chilensis* Cuvier & Valenciennes, Hist. Nat. Poiss., viii, 163, 1831, Valparaiso.

japonicus, diegoi colias.

Euchyponus

? sarda lineolata.



**Genus 396. SCOMBEROMORUS** Lacépède.*Scomberomorus* Lacépède, Hist. Nat. Poiss., III, 292, 1802 (*plumierii*).**1286. Scomberomorus concolor** (Lockington). *Monterey Spanish Mackerel*.

Monterey Bay, California; Santa Cruz.

*Chromitra concolor* Lockington, Proc. Ac. Nat. Sci. Phila. 1879, 133, Monterey, California.**1287. Scomberomorus maculatus** (Mitchill). *Spanish Mackerel*.

East coast of America from Cape Ann to Brazil; common in Gulf of Mexico, but rare or unknown about Cuba.

*Scombermaculatus* Mitchill, Trans. Lit. Phil. Soc. N. Y., I, 1815, 426, New York.**1288. Scomberomorus sierra** Jordan & Starks. *Sierra*.

Pacific Coast of Tropical America.

*Scomberomorus sierra* Jordan & Starks, in Jordan, Fishes Sinaloa, 428, 1895, Mazatlan, Mexico.**1289. Scomberomorus regalis** (Bloch). *Sierra; Pintado*.

Cape Cod to Brazil; Cuba.

*Scomber regalis* Bloch, Ichthyol., pl. 333, 1795, Martinique; after a drawing by Plumier.**1290. Scomberomorus cavalla** (Cuvier). *Sierra; Kingfish; Cavalla; Cero*.

Tropical Atlantic; Florida Keys and Charleston; Cape Cod; Africa; Brazil.

*Cybium caralla* Cuvier, Règne Animal, ed. 2, II, 200, 1829; after Guarapucu of Margrave.**Genus 397. ACANTHOCYBIUM** Gill. *Petos*.*Acanthocybium* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 125 (*sara* = *solandri*).**1291. Acanthocybium ~~solandri~~** (Cuvier & Valenciennes). *Peto; Wahoo; Guarapucu*.

Tropical seas; Cuba; Key West.

*Cybium solandri* Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 192, 1831; after ms. of Solander, open sea; no locality.**Family CXX. GEMPYLIDÆ. The Escolars.****Genus 398. ESCOLAR** Jordan & Evermann.*Escolar* Jordan & Evermann, in Goode & Bean, Oceanic Ichthology, 519, 1896 (*violaceus*).**1292. Escolar violaceus** (Bean).

Le Have Bank.

*Thyrstitops violaceus* Bean, Proc. U. S. Nat. Mus. 1887, 513, Le Have Bank.**Genus 399. RUVETTUS** Cocco. *Escolars*.*Ruvettus* Cocco, Giorn. Sci. Sicilia, XLII, 2, 1829 (*pretiosus*).**1293. Ruvettus pretiosus** Cocco. *Escolar; Rovetto; Ruvetto; Chicolas; Oilfish; Scourfish; Plain-tail*.

Mediterranean and westward in the Atlantic.

*Ruvettus pretiosus* Cocco, in Giornale di Scienz e per la Sicilia, XLII, 21, 1829, Messina.**Genus 400. EPINNULA** Poey.*Epinnula* Poey, Memorias, I, 369, 1854 (*magistralis*).**1294. Epinnula magistralis** Poey. *Dómine*.

Havana.

*Epinnula magistralis* Poey, Memorias, I, 369, 1854, Havana.**Genus 401. NEALOTUS** Johnson.*Nealotus* Johnson, Proc. Zool. Soc. Lond. 1865, 434 (*tripes*).**1295. Nealotus tripes** Johnson.*Madeira; between the Bahamas and Bermudas*.*Nealotus tripes* Johnson, Proc. Zool. Soc. Lond. 1865, 434, Madeira.



Genus 402. **PROMETHICHTHYS** Gill.

*Promethichthys* Gill, Mem. Nat. Ac. Sci., vi, 1893, 115 and 123 (*prometheus*).

1296. **Promethichthys prometheus** (Cuvier & Valenciennes). *Rabbit-fish; Corlbo; Conejo; Bermuda Catfish.*

Tropical Atlantic; Cuba; Bermudas.

*Gempylus prometheus* Cuvier & Valenciennes, Hist. Nat. Poiss., viii, 213, pl. 222, 1831, St. Helena.

1297. **Promethichthys parvipinnis** (Goode & Bean).

Western Atlantic.

*Dicrotus parvipinnis* Goode & Bean, Oceanic Ichthyology, 201, 1896, Gulf Stream at Albatross Stations 2537, 2542, and 2601, at about 40° N., 70° W.

Genus 403. **GEMPYLUS** Cuvier & Valenciennes. *Snake Mackerels.*

*Gempylus* Cuvier & Valenciennes, Hist. Nat. Poiss., viii, 207, 1831 (*serpens*).

1298. **Gempylus serpens** Cuvier & Valenciennes.

Deep seas.

*Gempylus serpens* Cuvier & Valenciennes, Hist. Nat. Poiss., viii, 207, 1831, Martinique.

Family CXXI. **LEPIDOPIDÆ.**

Genus 404. **APHANOPUS** Lowe.

*Aphanopus* Lowe, Proc. Zool. Soc. Lond. 1839, 79 (*carbo*).

1299. **Aphanopus minor** Collett.

East coast of Greenland.

*Aphanopus minor* Collett, Vidensk. Selsk. Forhandl. Christiania, No. 19, 3, 1886, east coast of Greenland, at 65° N., 31° W.

Genus 405. **EVOXYMETOPON** Poey. *Tirantes.*

*Evoxymetopon* Poey, in Gill, Proc. Ac. Nat. Sci. Phila. 1863, 228 (*tæniatus*).

1300. **Evoxymetopon tæniatus** Poey. *Tirante.*

Cuba.

*Evoxymetopon tæniatus* Poey, in Gill, Proc. Ac. Nat. Sci. Phila. 1863, 228, Cuba.

Genus 406. **LEPIDOPUS** Gouan. *Frost-fishes.*

*Lepidopus* Gouan, Hist. Nat. Poiss., 185, 1770 (*gouani*).

1301. **Lepidopus caudatus** (Euphrasen). *Frost-fish; Scabbard-fish.*

Atlantic; Norway to South Africa and New Zealand.

*Trichiurus caudatus* Euphrasen, Stockh. K. Vet. Ac. Nya Handl., 52, pl. 9, fig. 2, 1788, Mediterranean.

Genus 407. **BENTHODESMUS** Goode & Bean.

*Benthodesmus* Goode & Bean, Proc. U. S. Nat. Mus., iv, 1881, 380 (*elongatus*).

1302. **Benthodesmus atlanticus** Goode & Bean.

Western edge Grand Bank of Newfoundland, in 80 fathoms.

*Benthodesmus atlanticus* Goode & Bean, Oceanic Ichth., 205, 1896, Grand Bank.

Family CXXII. **TRICHIURIDÆ.** The Cutlas-Fishes.

Genus 408. **TRICHIURUS** Linnæus. *Hairtails.*

*Trichiurus* Linnæus, Syst. Nat., ed. x, 246, 1758 (*lepturus*).

1303. **Trichiurus lepturus** Linnæus. *Cutlas-fish; Scabbard-fish; Silver-fish; Sable; Sarola.*

Warm seas north to Virginia and Lower California; West Indies.

*Trichiurus lepturus* Linnæus, Syst. Nat., ed. x, 246, 1758, America; after *Lep-turus* of Artedi.

*Hemipylus* is prior to *Gemmesoma*  
Lee Regan

*Lepidopus xantini* Goode & Bean  
Cape San Lucas. <sup>Si</sup> Calif

Imazara may  
= T. freirestus  
nankapen 1907.

John Fay

## Family CXXIII. ISTIOPHORIDÆ. The Sail-Fishes.

Genus 409. ISTIOPHORUS Lacépède. *Sail-fishes*.*Istiophorus* Lacépède, Hist. Nat. Poiss., III, 374, 1802 (*gladifer* = *gladius*).

1304. *Istiophorus nigricans* (Lacépède). *Sail-fish*; *Spike-fish*; *Boohoo*; *Guebucu*; *Tollier*; *Aguja Voladora*; *Aguja Prieta*.

West Indies and warmer parts of the Atlantic, north to Key West and France; Florida Keys; Newport; south of Savannah.

*Makaira nigricans* Lacépède, Hist. Nat. Poiss., IV, 688, 1803, Rochelle; from a drawing by M. Traversay.

Genus 410. TETRAPTURUS Rafinesque. *Spear-fishes*.*Tetrapturus* Rafinesque, Indice d'Ittiol. Sicil., 30, 1810 (*belone*).

1305. *Tetrapturus imperator* (Bloch & Schneider). *Bill-fish*; *Spear-fish*; *Aguja Blanca*; *Aguja de Paladar*.

West Indies; Cape Cod.

*Xiphias imperator* Bloch & Schneider, Syst. Ichth., 93, pl. XXI, 1801, Mediterranean; after Duhamel.

1306. *Tetrapturus amplus* Poey. *Aguja de Casta*.

West Indies.

*Tetrapturus amplus* Poey, Memorias, II, 243, 1861, Havana.

## Family CXXIV. XIPHIIDÆ. The Sword-Fishes.

Genus 411. XIPHIAS Linnæus. *Sword-fishes*.*Xiphias* Linnæus, Syst. Nat., ed. x, 248, 1758 (*gladius*).

1307. *Xiphias gladius* Linnæus. *Common Sword-fish*; *Espada*; *Espadon*; *Emperador*.

Atlantic Ocean on both coasts; Cuba to Cape Breton and Newfoundland Banks; Pacific at Santa Barbara Islands.

*Xiphias gladius* Linnæus, Syst. Nat., ed. x, 248, 1758, Europe.

## Family CXXV. NEMATISTIIDÆ. The Papagallos.

Genus 412. NEMATISTIUS Gill.

*Nematistius* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 258 (*pectoralis*).

1308. *Nematistius pectoralis* Gill.

Gulf of California to Panama; Cape San Lucas; Guaymas; Picheluogo, Mazatlan; Magdalena Bay; Panama.

*Nematistius pectoralis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 259, Cape San Lucas.

## Family CXXVI. CARANGIDÆ. The Pampanos.

Genus 413. OLIGOPLITES Gill.

*Oligoplites* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 166 (*occidentalis*).

1309. *Oligoplites saurus* (Bloch & Schneider). *Leather-jacket*; *Leather-coat*.

Both coasts of America, and West Indies, north to New York and Lower California.

*Scomber saurus* Bloch & Schneider, Syst. Ichth., 32, 1801, Jamaica.

1310. *Oligoplites saliens* (Bloch). *Sauteur*.

West Indies.

*Scomber saliens* Bloch, Ichthyologia, pl. 335, 1793, Martinique; on a figure by Plumier.

- 1310a. *Oligoplites saliens palometa* (Cuvier & Valenciennes).

Lake Maracaibo, Venezuela.

*Chorinemus palometa* Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 392, 1831, Lake Maracaibo, Venezuela.

**1311. *Oligoplites altus* (Günther).**

Pacific Coast of tropical America; Panama.

*Chorinemus altus* Günther, Fishes Central Amer., 433, 1869, Panama.

**1312. *Oligoplites mundus* Jordan & Starks.**

West coast of Mexico; Mazatlan.

*Oligoplites mundus* Jordan & Starks, in Jordan, Proc. Cal. Ac. Sci. 1896, Mazatlan, Mexico.

**Genus 414. NAUCRATES Rafinesque.**

*Naucrates* Rafinesque, Caratteri di Alcuni Nuovi Generi, etc., 44, 1810 (conductor).

**1313. *Naucrates ductor* (Linnæus). Pilot-fish; Romero.**

Atlantic Coast, from Cape Cod to the West Indies.

*Gasterosteus ductor* Linnæus, Syst. Nat., ed. x, 295, 1758, "in pelago."

**Genus 415. SERIOLA Cuvier.**

*Seriola* Cuvier, Règne Animal, ed. 2, II, 205, 1829 (*dumerili*).

**1314. *Seriola dorsalis* (Gill). Yellow-tail.**

Pacific Coast, from Point Conception southward to Mazatlan; Santa Barbara Islands.

*Halatractus dorsalis* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 84, Cape San Lucas.

**1315. *Seriola zonata* (Mitchill). Shark Pilot; Rudder-fish.**

Atlantic Coast of the United States, from Cape Cod to Cape Hatteras.

*Scomber zonatus* Mitchill, Trans. Lit. Phil. Soc. N. Y. 1815, 427, New York Bay.

**1315a. *Seriola zonata carolinensis* Holbrook.**

Gulf of Mexico, and on Atlantic Coast north to Cape Hatteras.

*Seriola carolinensis* Holbrook, Ichthyol. S. C., 72, 1860, Charleston, S. C.

**1316. *Seriola lalandi* Cuvier & Valenciennes. Great Amber-fish; Amber Jack; Coronado.**

West Florida to Brazil; Key West.

*Seriola lalandi* Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 208, 1833, Brazil.

**1317. *Seriola dumerili* (Risso). Amber Jack; Coronado.**

Mediterranean to West Indies, north to Key West and Pensacola.

*Caranx dumerili* Risso, Ichthyol. Nice, 175, pl. 6, fig. 20, 1810, Nice.

**Subgenus ZONICHTHYS Swainson.**

*Zonichthys* Swainson, Nat. Hist. Class. Fishes. II, 1839 (*fasciatus*).

**1318. *Seriola mazatlana* Steindachner.**

West coast of Mexico, Mazatlan.

*Seriola mazatlana* Steindachner, Ichth. Beitr., v, 8, 1876, Mazatlan, Mexico.

**1319. *Seriola fasciata* (Bloch). Madregal.**

West Indies, north to Charleston, South Carolina.

*Scomber fasciatus* Bloch, Ichthyologia, pl. 341, 1793, no locality.

**1320. *Seriola rivoliana* Cuvier & Valenciennes.**

Mediterranean to Brazil, West Indies, and South Carolina; Florida coast.

*Seriola rivoliana* Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 207, 1833, the Greek Archipelago.

**1321. *Seriola falcata* Cuvier & Valenciennes. Madregal; "Rock Salmon."**

West Indies, north to Florida and Carolina.

*Seriola falcata* Cuv. & Val., Hist. Nat. Poiss., ix, 210, 1833, Gulf of Mexico.

**Genus 416. ELAGATIS Bennett.**

*Elagatis* Bennett, Narrative of a Whaling Voyage, II, 283, 1810 (*bipinnulata*).

**1322. *Elagatis bipinnulatus* (Quoy & Gaimard). Runner; Yellow-tail.**

Tropical seas; West Indies; Long Island.

*Seriola bipinnulata* Quoy & Gaimard, Voy. Uran., Zool., I, 363, pl. 61, fig. 3, 1824.

Figure 1.1.1.1

$R$   
1 symmetric

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Is calculation same?

penetration

substantive  
A. ~~man~~

**Genus 417. DECAPTERUS Bleeker. Mackerel Scads.***Decapterus* Bleeker, Natuurk. Tydschr., v, 1855, 417 (*kurra*).**1323. *Decapterus punctatus* (Agassiz). Scad; Round Robin; Cigar-fish; Quia-quia.**

Cape Cod to Brazil, coasts of Florida and the West Indies.

*Caranx punctatus* Agassiz, Spix, Pisc. Bras., 108, pl. 56a, fig. 2, 1829, Brazil.**1324. *Decapterus scombrinus* (Valenciennes).**

Galapagos Islands.

*Caranx scombrinus* Valenciennes, Voyage de la Vénus, 332, pl. 7, fig. 1, 1846, Galapagos Islands.**1325. *Decapterus sanctæ-helenæ* Cuvier & Valenciennes.**

South America, both coasts; Cuba.

*Decapterus sanctæ-helenæ* Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 37, 1833, St. Helena.**1326. *Decapterus hypodus* Gill.**

Cape San Lucas.

*Decapterus hypodus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 261, Cape San Lucas.**1327. *Decapterus macarellus* (Cuvier & Valenciennes). Mackerel Scad; Antonino.**

Warm parts of the Atlantic, northward to Cape Cod.

*Caranx macarellus* Cuv. & Val., Hist. Nat. Poiss., ix, 40, 1833, Martinique.**Genus 418. TRACHURUS Rafinesque. Saurels.***Trachurus* Rafinesque, Indice d'Ittiologia Siciliana, 20, 1810 (*trachurus*).**1328. *Trachurus picturatus* (Bowdich). Horse-mackerel; Xurel.**

Coast of California, from San Francisco southward to the Galapagos Islands and Chile; Mediterranean and New Zealand.

*Seriola picturata* Bowdich, Excursion to Madeira, 123, fig. 27, 1825, Madeira.**1329. *Trachurus trachurus* (Linnæus). Gascon; Saurel.**North Atlantic, chiefly on the coast of Europe, south to Spain and Naples; Newport, Rhode Island; Pensacola; ~~also on the west coast at Cape San Lucas.~~*Scomber trachurus* Linnæus, Syst. Nat., ed. x, 298, 1758, Mediterranean.**Genus 419. TRACHUROPS Gill.***Trachurops* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 431 (*crumenophthalmus*).**1330. *Trachurops crumenophthalmus* (Bloch). Goggler; Big-eyed Scad; Goggle-eye Jack; Chicharro.**

Atlantic coast of the United States, Central America, South America, and Africa; West Indies; Cape San Lucas; Panama.

*Scomber crumenophthalmus* Bloch, Ichthyol., pl. 343, 1793, Acara in Guinea.**Genus 420. HEMICARANX Bleeker.***Hemicaranx* Bleeker, Versl. Kon. Ak. Wet., xiv, 134, 1862 (*marginatus*).**1331. *Hemicaranx amblyrhynchus* (Cuvier & Valenciennes).**

Cape Hatteras to Brazil; West Indies; Carolina and Florida.

*Caranx amblyrhynchus* Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 100, pl. 248, 1833, Brazil.**1332. *Hemicaranx atrimanus* (Jordan & Gilbert).**

Pacific Coast of tropical America; Panama.

*Caranx atrimanus* Jordan & Gilbert, Bull. U. S. F. C., i, 1881, 308, Panama.**1333. *Hemicaranx secundus* (Poey). Segundo; Golantín.**

Cuba.

*Caranx secundus*, Poey, Memorias, ii, 223, 1860, Cuba.**1334. *Hemicaranx furthii* (Steindachner).**

Panama.

*Caranx fürthii* Steindachner, Ichth. Beitr., iv, 12, 1875, Panama.



1335. *Hemicaranx leucurus* (Günther).

Pacific Coast of tropical America; Panama.

*Caranops leucurus* Günther, Proc. Zool. Soc. Lond. 1864, 24, Panama.

Genus 421. *CARANX* Lacépède.

*Caranx* Lacépède, Hist. Nat. Poiss., III, 72, 1802 (*trachurus*, *speciosus*, *carangus*, *ruber*, etc.).

~~Subgenus SELAR~~ Bleeker.

*Selar* Bleeker, Verhandl. Batav. Genootsch., XIV, 1851 (*boops*).

1336. *Caranx vinctus* Jordan & Gilbert. *Cocinera*.

Pacific Coast of Mexico, Mazatlan to Punta Arenas; Gulf of California; Central America.

*Caranx vinctus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 349, Mazatlan.

Subgenus *CARANX* Lacépède.

1337. *Caranx ruber* (Bloch). *Cibi*; *Carbonero*; *Green Jack*.

West Indies.

*Scomber ruber* Bloch, Ichthyologia, pl. 342, 1793, Ste. Croix.

1338. *Caranx bartholomæi* Cuvier & Valenciennes. *Yellow Jack*; *Cibi Amarillo*.

West Indies, northward to Florida and North Carolina; Cuba.

*Caranx bartholomæi* Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 100, 1833, St. Bartholomew.

~~Subgenus TRICROPTERUS~~ Rafinesque.

*Tricropterus* Rafinesque, Caratteri Alcuni Nuovi Generi, 41, 1810 (*carangus* = *hippos*).

1339. *Caranx hippos* (Linnæus). *Crevallé*; *Toro*; *Horse-carallé*; *Crevally Jack*; *Jiguagua*.

Warm seas generally, both coasts of tropical America, north to Cape Cod and Gulf of California; East Indies.

*Scomber hippos* Linnæus, Syst. Nat., ed. XII, 494, 1766, Charleston, S. C.

Subgenus *PARATRACTUS* Gill.

*Paratractus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 432 (*pisquetus* = *crysos*).

1340. *Caranx crysos* (Mitchill). *Hard-tail*; *Runner*; *Jurel*; *Yellow Mackerel*; *Cojinera*; *Crevallé*.

Cape Cod to Brazil.

*Scomber crysos* Mitchill, Trans. Lit. Phil. Soc. N. Y. 1815, 424, New York.

1341. *Caranx caballus* (Günther). *Cocinero*; *Jurel*; *Cocinero Dorado*.

Pacific Coast of tropical America, San Diego to Panama.

*Caranx caballus* Günther, Fish. Centr. Amer., 431, 1869, Panama.

Subgenus *CARANGICHTHYS* Bleeker.

*Carangichthys* Bleeker, Bijdragen Ichthyol. Fauna Celebes, III, 760, about 1852 (*typus*).

1342. *Caranx marginatus* Gill.

Pacific Coast of Mexico; Mazatlan and Panama.

*Caranx marginatus* Gill, Proc. Ac. Nat. Sci. Phila. 1866, 166, Panama.

1343. *Caranx latus* Agassiz. *Jurel*; *Nurel*; *Horse-eye Jack*.

All warm seas, north to Virginia; west coast of Mexico; Panama, Clarion Island, and Chatham Island.

*Caranx latus* Agassiz, Spix, Pisc. Bras., 105, 1829, Brazil.

1344. *Caranx medusicola*, Jordan & Starks.

Mazatlan, Mexico.

*Caranx medusicola* Jordan & Starks, in Jordan, Fishes Sinaloa, 430, pl. 34, 1895, Mazatlan.

1345. *Caranx lugubris* Poey. *Tiñosa*.

Rocky islands in the tropics; Clarion Island (Revillagigedo Archipelago); West Indies; mid-Atlantic; mid-Pacific.

*Caranx lugubris* Poey, Memorias, II, 222, 1860, Cuba.

Caranx perquetus is diff. from C. enpos  
maybe C. caballus ? Nichols sep no

Caranx melampygus = line

? All one species.

is . . . but . . . more . . .

Probably *Laranyx adscensionis* = glauca L.

*Stellula***1346. *Caranx melampygus* Cuvier & Valenciennes.**

Pacific Ocean generally; Revillagigedo Islands.

*Caranx melampygus* Cuv. & Val., Hist. Nat. Poiss., ix, 116, 1833, East Indies.

Subgenus URASPIS Bleeker.

*Uraspis* Bleeker, Verhandl. Batav. Genootsch., xxiv, 1851 (*boops*).**1347. *Caranx guara* (Bonnaterre). “*Enxaréo*.”**

Tropical parts of the Atlantic; Mediterranean; Africa; Brazil; Madeiras; South Pacific.

*Scomber guara* Bonnaterre, Encycl., 139, pl. 58, 1788, on a specimen from America in Jussien's collection.

Genus 422. GNATHANODON Bleeker.

*Gnathanodon* Bleeker, Verh. Batav. Genootsch., xxiv, Makreele, 1851 (*speciosus*).**1348. *Gnathanodon speciosus* (Forskål). *Mojarra Dorada*.**

Tropical parts of the Pacific Ocean; East Indies; Mazatlan to Panama.

*Scomber speciosus* Forskål, Descr. Anim., xii, 54, 1775, Red Sea.

Genus 423. CARANGOIDES Bleeker.

*Carangoides* Bleeker, Verh. Batav. Genootsch., xxiv, Makreele, 1851 (*plagiotaenia*).**1349. *Carangoides orthogrammus* (Jordan & Gilbert).**

Revillagigedo Islands; Pacific islands.

*Caranx orthogrammus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 226, Sulphur Bay, Clarion Island (Revillagigedo Archipelago).

Genus 424. CITULA Cuvier.

*Citula* Cuvier, Règne Animal, ed. i, 315, 1817 (*armata*).**1350. *Citula dorsalis* (Gill). *Pámpano*.**

Pacific Coast of tropical America; Mazatlan; Panama.

*Carangoides dorsalis* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 166, Panama.

Genus 425. ALECTIS Rafinesque.

*Alectis* Rafinesque, Analyse de la Nature, 1815 (substitute for *Gallus*).**1351. *Alectis ciliaris* (Bloch). *Thread-fish; Cobbler-fish; Sunfish*.**

Tropical America on both coasts, ranging north to Cape Cod and Mazatlan, Florida Keys and Cuba.

*Zeus ciliaris* Bloch, Ichthyol., vi, 29, 1788, East Indies.

Genus 426. HYNNIS Cuvier &amp; Valenciennes.

*Hynn timer* Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 195, 1833 (*gorcensis*).**1352. *Hynn timer cubensis* (Poey).**

Cuba.

*Hynn timer cubensis* Poey, Memorias, ii, 235, 1860, Havana.**1353. *Hynn timer hopkinsi* Jordan & Starks. *Pámpano*.**

Puerto Viejo, near Mazatlan.

*Hynn timer hopkinsi* Jordan & Starks, in Jordan, Fishes Sinaloa, 435, pl. 35, 1895, Mazatlan.

Genus 427. VOMER Cuvier &amp; Valenciennes.

*Vomer* Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 189, 1833 (*brownii*).**1354. *Vomer dorsalis* Gill.**

West Indies and west coast of Africa.

*Vomer dorsalis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 436; after Günther.**1355. *Vomer setipinnis* (Mitchill). *Blunt-nosed Shiner; Jorobado; Moonfish; Horsefish*.**

Both coasts of America, from Maine to Florida, and Cape San Lucas to Peru.

*Zeus setipinnis* Mitchill, Trans. Lit. Philos. Soc. N. Y. 1815, 384, New York.

1356. *Vomer spirii* (Swainson).

West Indies south to Brazil.

*Platysomus spirii* Swainson, Class. Fishes, etc., II, 250 and 406, 1839, Brazil: after Spix & Agassiz, pl. 57.

Genus 428. *SELENE* Lacépède. *Moonfishes*.

*Selene* Lacépède, Hist. Nat. Poiss., IV, 560, 1803 (*argentea* = young of *romer*).

1357. *Selene cerstedii* Lütken.

Pacific Coast, Mazatlan to Panama.

*Selene cerstedii* Lütken, Spolia Atlantica, 144, 1880, Punta Arenas.

1358. *Selene vomer* (Linnæus). *Moonfish*; *Jorobado*; *Look-down*; *Horsehead*.

Tropical America, on both coasts; Cape Cod to Brazil; Lower California to Peru.

*Zeus vomer* Linnæus, Syst. Nat., ed. x, 266, 1758, America.

Genus 429. *CHLOROSCOMBRUS* Girard. *Casabes*.

*Chloroscombrus* Girard, Proc. Ac. Nat. Sci. Phila. 1858, 168 (*cosmopolita*).

1359. *Chloroscombrus orqueta* Jordan & Gilbert. *Orqueta*; *Xurel de Castilla*.

Pacific Coast of tropical America; Magdalena Bay to Panama.

*Chloroscombrus orqueta* Jordan & Gilbert, Proc. U. S. N. M. 1882, 646, Panama.

1360. *Chloroscombrus chrysurus* (Linnæus). *Casabe*; *Bumper*.

Cape Cod to Brazil; common on our South Atlantic Coast and in Cuba.

*Scomber chrysurus* Linnæus, Syst. Nat., ed. XII, 494, 1766, Charleston, S. C.

Genus 430. *TRACHINOTUS* Lacépède. *Pámpanos*.

*Trachinotus* Lacépède, Hist. Nat. Poiss., III, 79, 1802 (*falcatus*).

1361. *Trachinotus glaucus* (Bloch). *Gaff-topsail*; *Pámpano*; *Old Wife*; *Palometa*.

Tropical America, from Virginia to the Caribbean Sea.

*Chatodon glaucus* Bloch, Ichthyol., pl. 210, 1787, Martinique; on a figure by Plumier.

1362. *Trachinotus rhodopus* Gill. *Pampanito*.

Pacific Coast of tropical America, south to Panama.

*Trachinotus rhodopus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 85, Cape San Lucas.

1363. *Trachinotus falcatus* (Linnæus). *Round Pámpano*; *Palometa*; *Permit of Indian River*.

East coast of United States, Cape Cod to Florida.

*Labrus falcatus* Linnæus, Syst. Nat., ed. x, 284, 1758, America.

1364. *Trachinotus rhomboides* (Bloch). *Round Pámpano*.

West Indies to Brazil.

*Chatodon rhomboides* Bloch, Syst. Ichth., pl. 209, 1787, Martinique; on a drawing by Plumier.

1365. *Trachinotus culveri* Jordan & Starks.

Astillero, at Mazatlan, Mexico.

*Trachinotus culveri* Jordan & Starks in Jordan, Fishes Sinaloa, 439, pl. 36, 1895, Mazatlan.

1366. *Trachinotus kennedyi* Steindachner.

Tropical America; Magdalena Bay to Panama; Pacific Coast.

*Trachinotus kennedyi* Steindachner, Ichth. Beitr., III, 47, pl. VII, 1875, Magdalena Bay.

1367. *Trachinotus goodii* Jordan & Evermann. *Permit*; *Palometa*; *Great Pámpano*.

West Indies, north to southern Florida.

*Trachinotus goodii*, Jordan & Evermann, Fishes North and Middle America, 943, 1896, Key West, Fla.

*Chlorocombus clemens* Osgood.  
W. L. L. L.

*Salix stibbe*  
L. L. L.

*S. palomela*, Regan.  
*Lichia glauca*, is a *Trachinotus*.

*L. Lichia*

*L. glauca* = par of *Glauca* Klenner.  
Hypodis. Rafinesque }



**1368. *Trachinotus argenteus* Cuvier & Valenciennes.**

Atlantic Coast.

*Trachinotus argenteus* Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 413, 1831, New York and Rio Janeiro.**1369. *Trachinotus carolinus* (Linnæus). Common Pompano; Pámpano; Cobbler-fish.**  
South Atlantic and Gulf coasts of United States; Cape Cod; West Indies; Brazil.*Gasterosteus carolinus* Linnæus, Syst. Nat., ed. XII, 490, 1766, Carolina.**1370. *Trachinotus paloma* Jordan & Starks.**

Cape San Lucas, Mazatlan, San Juan Lagoon.

*Trachinotus paloma* Jordan & Starks, in Jordan, Fishes Sinaloa, 437, 1895, Mazatlan, Mexico.**1371. *Trachinotus cayennensis* Cuvier & Valenciennes.**

Cayenne.

*Trachinotus cayennensis* Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 417, 1831, Cayenne.**Family CXXVII. POMATOMIDÆ. The Bluefishes.****Genus 431. POMATOMUS Lacépède.***Pomatomus* Lacépède, Hist. Nat. Poiss., IV, 436, 1802 (*skib*).**1372. *Pomatomus saltatrix* (Linnæus). Bluefish; Snap Mackerel; Skipjack.**

Atlantic and Indian oceans.

*Perca saltatrix* Linnæus, Syst. Nat., ed. X, I, 293, 1758, Carolina.**Family CXXVIII. RACHYCENTRIDÆ. Sergeant-Fishes.****Genus 432. RACHYCENTRON Kaup.***Rachycentron* Kaup, Isis, XIX, col. 89, 1826 (*typus*).**1373. *Rachycentron canadum* (Linnæus). Sergeant-fish; Crab-eater; Cobia.**

In all warm seas; Atlantic Coast, north to Cape Cod.

*Gasterosteus canadus* Linnæus, Syst. Nat., ed. XII, 491, 1766, Carolina.**Family CXXIX. NOMEIDÆ.****Genus 433. NOMEUS Cuvier.***Nomeus* Cuvier, Règne Animal, ed. 1, II, 315, 1817 (*gronovii*).**1374. *Nomeus gronovii* (Gmelin). Portuguese Man-of-war-fish; Harder; Pastor.**

Tropical parts of the Atlantic and Indian oceans; Sargasso Sea; Florida; Bermuda; Woods Hole, Massachusetts.

*Gobius gronovii* Gmelin, Syst. Nat., ed. XIII, 1205, 1788, Tropical America; after Gronow.**Genus 434. PSENES Cuvier & Valenciennes.***Psenes* Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 259, 1833 (*cyanophrys*).**1375. *Psenes pellucidus* Lütken.**

Gulf Stream, at 32° 24' N., 76° 55' W., in 528 fathoms.

*Psenes pellucidus* Lütken, Spolia Atlantica, 516 (109), fig. 601 (198), 1880, Strait of Surabaja.**1376. *Psenes cyanophrys* Cuvier & Valenciennes.**

Open sea; Atlantic, Pacific, and Indian oceans; Jamaica and Martinique.

*Psenes cyanophrys* Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 260, pl. 265, 1833, New Iceland.**1377. *Psenes maculatus* Lütken.**

Open Atlantic.

*Psenes maculatus* Lütken, Spolia Atlantica, 110, 1880, open Atlantic, 39° N., 25° 4' S., and between 34° and 27° W., in 600 to 700 fathoms.



1378. *Psenes regulus* Poey.

Coasts of Cuba; East Indies.

*Psenes regulus* Poey, Synopsis, 375, 1868, Cuba.

Family CXXX. CORYPHÆNIDÆ. The Dolphins.

Genus 435. CORYPHÆNA Linnaeus.

*Coryphæna* Linnaeus, Syst. Nat., ed. x, 261, 1758 (*hippurus*).

1379. *Coryphæna hippurus* Linnaeus. Common Dolphin; Dorado; Dourade.

Pelagic to Cape Cod and northward, South Carolina to Texas.

*Coryphæna hippurus* Linnaeus, Syst. Nat., ed. x, 261, 1758, open seas.

1380. *Coryphæna equisetis* Linnaeus. Small Dolphin.

Open Atlantic, West Indies.

*Coryphæna equisetis* Linnaeus, Syst. Nat., ed. x, 261, 1758 (misprinted *equisetis*, high seas; after Osbeck:

Family CXXXI. LAMPRIDÆ. The Mariposas.

Genus 436. LAMPRIS Retzius.

*Lampris* Retzius, Nya Handling, III, 91, 1799 (*guttatus* = *luna*).

1381. *Lampris luna* (Gmelin). <sup>regius Bonattus</sup> Mariposa; Opah; San Pedro Fish; Craro; Jerusalem Haddock; Glance-fish; Gudlar; Moonfish.

Atlantic and Pacific; Madeira; Newfoundland; Maine; Cuba; Monterey.

*Zeus luna* Gmelin, Syst. Nat., ed. XIII, 1225, 1788, Normandy.

Family CXXXII. PTERACLIDIDÆ.

Genus 437. PTERACLIS Gronow.

*Pteraclis* Gronow, Acta Helvetica, VII, 44, 1772 (*relifera*).

1382. *Pteraclis carolinus* Cuvier & Valenciennes.

Coast of South Carolina.

*Pteraclis carolinus* Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 368, 1833, of coast South Carolina.

Family CXXXIII. BRAMIDÆ. The Pomfrets.

Genus 438. TARACTES Lowe.

*Taractes* Lowe, Proc. Zool. Soc. Lond. 1863, 82 (*asper*; probably young of *Brama longipinnis*).

1383. *Taractes saussurii* (Lunel).

Havana.

*Brama saussurii* Lunel, Revue du Genre Brama, Mém. Soc. Phys. Hist. Nat. Geneve, XVIII, 1865, 185, tab. 2, Cuba.

Genus 439. BRAMA Bloch & Schneider. Pomfret.

*Brama* Bloch & Schneider, Syst. Ichth., 98, 1801 (*raii*).

1384. *Brama agassizii* Poey.

Cuba.

*Brama agassizii* Poey, Memorias, II, 204, 1860, Havana.

1385. *Brama brevoortii* Poey.

Cuba.

*Brama brevoortii* Poey, Memorias, II, 206, 1860, Havana.

1386. *Brama raii* (Bloch). Pomfret; Castagnole; Rondanin.

Open seas; Europe; Faroe Islands; Bermuda; Grand Banks; Pacific Coast. from Santa Catalina to Puget Sound.

*Sparus raii* Bloch, Ichthyol., tab. 273, 1791, after Ray, etc.

LEPODUS  
Rapiney

Brama Kaem  
1777 =  
Agassiz

Luvatus. ( 3. Pedro)

...

Pteractis goshii f.

...

*Rhombus alapidatus* is probably valid.

*Rhombus*, *Palometa* + *Poronotus* valid,

*Rhombus* Klein . 1777 = *Psetta*

*Peprilus comes* in 'vice *Rhombus*.

## Family CXXXIV. STEINEGERIDÆ.

Genus 440. STEINEGERIA Jordan &amp; Evermann.

*Steinegeria* Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 467 (*rubescens*).1387. *Steinegeria rubescens* Jordan & Evermann.

Gulf of Mexico.

*Steinegeria rubescens* Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 467, Snapper Banks, off Pensacola, Florida.

## Family CXXXV. CENTROLOPHIDÆ. The Rudder-Fishes.

Genus 441. CENTROLOPHUS Lacépède *Black Ruffs*.*Centrolophus* Lacépède, Hist. Nat. Poiss., IV, 441, 1803 (*niger*).1388. *Centrolophus niger* (Gmelin). *Blackfish*; *Black Ruffe*; *Borlase*.

Coasts of southern Europe; Dennis, Massachusetts.

*Perca niger* Gmelin, Syst. Nat., 1321, 1788, Cornwall.

Genus 442. PALINURICHTHYS Bleeker.

*Palinurichthys* Bleeker, Enum. Spec. Pisc. Arch. Ind., 22, November, 1859, (*perciformis*).1389. *Palinurichthys perciformis* (Mitchill). *Rudder-fish*; *Log-fish*.

Atlantic Coast of North America, from Cape Hatteras to Maine; Cornwall.

*Coryphæna perciformis* Mitchill, Am. Month. Mag., II, 1818, 244, N. Y. Harbor.

## Family CXXXVI. STROMATEIDÆ. The Flatolas.

Genus 443. RHOMBUS Lacépède. *Butter-fishes*.*Rhombus* Lacépède, Hist. Nat. Poiss., II, 321, 1800 (*alepidotus*).Subgenus RHOMBUS Lacépède. *Papirus*.1390. *Rhombus paru* (Linnæus). *Harvest-fish*; *Pappy-fish*. *Meuk*

South Atlantic Coast of United States, West Indies, Cape Cod to Jamaica and Brazil.

*Stromateus paru* Linnæus, Syst. Nat., ed. x, 248, 1758, Jamaica; based on Sloane.1391. *Rhombus xanthurus* (Quoy & Gaimard).

Coast of South America, Cayenne to Montevideo.

*Seserinus xanthurus* Quoy & Gaimard, Voy. Freyc., Zool., 384, 1824, Brazil.

Subgenus PALOMETA Jordan &amp; Evermann.

*Palometa* Jordan & Evermann, Fishes N. and M. A., 966, 1896 (*palometa*).1392. *Rhombus palometa* (Jordan & Bollman).

Pacific Ocean, off Colombia.

*Stromateus palometa* Jordan & Bollman, Proc. U. S. N. M. 1889, 156, off coast of Colombia, 8° 16' 30" N., 79° 37' 45" W., at Albatross Station 2804.1393. *Rhombus medius* (Peters). *Palometa*.

Pacific Coast of North America, Mazatlan to Panama.

*Stromateus medius* Peters, Berl. Monatsb., 1869, 707, Mazatlan, Mexico.1394. *Rhombus simillimus* (Ayres). *California Pompano*.

Pacific Coast of United States, Puget Sound to San Diego.

*Poronotus simillimus* Ayres, Proc. Cal. Ac. Sci. 1860, 84, San Francisco.

Subgenus PORONOTUS Gill.

*Poronotus* Gill, Cat. Fish. E. Coast N. Am., 35, 1861 (*triacanthus*).1395. *Rhombus triacanthus* (Peck). *Dollar-fish*; *Harvest-fish*; *Butter-fish*; *Lafayette*.

Nova Scotia to Florida.

*Stromateus triacanthus* Peck, Mem. Am. Ac., II, part 2, 48, pl. 2, fig. 2, 1800, Piscataqua River, New Hampshire.

**Family CXXXVII. ICOSTEIDÆ. The Rag-Fishes.**

**Genus 444. ICICHTHYS** Jordan & Gilbert.

*Icichthys* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 305 (*lockingtoni*).

**1396. *Icichthys lockingtoni*** Jordan & Gilbert.

San Francisco, California.

*Icichthys lockingtoni* Jordan & Gilbert, Proc. U. S. Nat. Mus., III, 1880, 305, off San Francisco.

**Genus 445. SCHEDOPHILUS** Cocco.

*Schedophilus* Cocco, Giorn. Innom. Messina, Ann., III, 7, 57, 1834 (*medusophagus*).

**1397. *Schedophilus medusophagus*** Cocco.

Mid-Atlantic; Mediterranean; Ireland; Samoa.

*Schedophilus medusophagus* Cocco, Giorn. Innom. Messina, III, 7, 57, Messina.

**Genus 446. ICOSTEUS** Lockington.

*Icosteus* Lockington, Proc. U. S. Nat. Mus. 1880, 63 (*ænigmaticus*).

**1398. *Icosteus ænigmaticus*** Lockington.

Coast of California, Oregon, and Washington.

*Icosteus ænigmaticus* Lockington, Proc. U. S. Nat. Mus., III, 1880, 63, off San Francisco.

**Genus 447. ACROTUS** Bean.

*Acrotus* Bean, Proc. U. S. Nat. Mus. 1887, 631 (*willoughbyi*).

**1399. *Acrotus willoughbyi*** Bean.

On coast of Washington.

*Acrotus willoughbyi* Bean, Proc. U. S. Nat. Mus. 1887, 631, Quinalt Agency, Washington.

**Family CXXXVIII. ZAPRORIDÆ.**

**Genus 448. ZAPRORA** Jordan.

**1400. *Zaprora silenus*** Jordan.

Known only from the harbor at Nanaimo, Vancouver Island, British Columbia.

*Zaprora silenus* Jordan, Proc. Cal. Ac. Sci., 1896, 202, harbor at Nanaimo, Vancouver Island.

**Family CXXXIX. GRAMMICOLEPIDIDÆ.**

**Genus 449. GRAMMICOLEPIS** Poey.

*Grammicolepis* Poey, Anal. Soc. Esp. Hist. Nat., II, 1873 (*brachiusculus*).

**1401. *Grammicolepis brachiusculus*** Poey.

Cuba.

*Grammicolepis brachiusculus* Poey, Anal. Soc. Esp. Hist. Nat., II, 1873, Cuba.

**Family CXL. TETRAGONURIDÆ. The Square-Tails.**

**Genus 450. TETRAGONURUS** Risso.

*Tetragonurus* Risso, Ichth. Nice, 347, 1810 (*cuvieri*).

**1402. *Tetragonurus cuvieri*** Risso. *Escolar de Natura; Courpata; Square-tail; Sea Raven.*

Nice; Toulon and Marseilles; Madeira.

*Tetragonurus cuvieri* Risso, Ichth. Nice, 347, 1810, Nice.

Regan makes a new order  
Malacichthyes for Decapoda  
see p 495

Scichthys heathi Gilbert.  
Monteniz.

ACROTIDÆ Good Family.



**Family CXLI. PEMPHERIDÆ. The Deep-water Catalufas.****Genus 451. PEMPHERIS** Cuvier & Valenciennes.*Pempheris* Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 296, 1831 (*onalensis*).**1403. Pempheris mexicanus** Cuvier & Valenciennes.

Pacific Coast of Mexico, Acapulco.

*Pempheris mexicanus* Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 308, 1831, Acapulco, Mexico.**1404. Pempheris schomburgki** Müller & Troschel.

Barbados and Cuba.

*Pempheris schomburgki* Müller & Troschel, in Schomburgk's History of Barbados, 669, 1845, Barbados.**1405. Pempheris mulleri** Poey. *Catalufa de la Alto*.

West Indies to Brazil; coast of Cuba.

*Pempheris mulleri* Poey, Memorias, II, 203, 1860, Cuba.**1406. Pempheris poeyi** Bean.

Cuba.

*Pempheris poeyi* Bean, Proc. U. S. Nat. Mus. 1885, 229, Havana.**Group PERCOIDEA. The Perch-like Fishes.****Family CXLII. ELASSOMATIDÆ. Pigmy Sunfishes.****Genus 452. ELASSOMA** Jordan.*Elassoma* Jordan, Bull. U. S. Nat. Mus., x, 50, 1877 (*zonata*).**1407. Elassoma zonatum** Jordan.

Southern Illinois to Texas and Alabama.

*Elassoma zonata* Jordan, Bull. U. S. Nat. Mus., x, 50, 1877, Little Red River, White County, Ark.**1408. Elassoma evergladei** Jordan.

Swamps of southern Georgia and Florida, locally common in dark waters tributary to the Everglades.

*Elassoma evergladei* Jordan, Proc. U. S. Nat. Mus. 1884, 323, Indian, St. Johns, and Suwanee rivers, Florida.**Family CXLIII. CENTRARCHIDÆ. The Sunfishes.****Genus 453. POMOXIS** Rafinesque. *Crappies*.*Pomoxis* Rafinesque, Amer. Month. Magazine 1818, 41 (*annularis*).**1409. Pomoxis annularis** Rafinesque. *Crappie; Bachelor; Sac-a-lait; New Light; Campbellite; Crapet.*

Eastern United States, from the Great Lakes south to Texas and west to Kansas and Nebraska.

*Pomoxis annularis* Rafinesque, Amer. Month. Mag., 1818, 41, Falls of the Ohio River.**1410. Pomoxis sparoides** (Lacépède). *Calico Bass; Grass Bass; Barfish; Strawberry Bass.*

Great Lakes and Upper Mississippi Valley to New Jersey and southward to Florida, Louisiana, and Texas.

*Labrus sparoides* Lacépède, Hist. Nat. Poiss., III, 517, 1802, South Carolina.**Genus 454. CENTRARCHUS** Cuvier & Valenciennes. *Round Bass*.*Centrarchus* Cuvier & Valenciennes, Hist. Nat. Poiss., III, 84, 1829 (*irideus*).**1411. Centrarchus macropterus** (Lacépède). *Round Sunfish; Flier.*

Lowland streams from Virginia southward to Florida and Louisiana; northward in the Mississippi Valley to southern Illinois.

*Labrus macropterus* Lacépède, Hist. Nat. Poiss., III, 447, 1802, Charleston, S. C.



**Genus 455. ACANTHARCHUS Gill.**

*Acantharchus* Gill, Amer. Jour. Sci. Arts, 1864, 92 (*pomotis*).

**1412. *Acantharchus pomotis* (Baird). Mud Sunfish.**

Southern New York to South Carolina.

*Centrarchus pomotis* Baird, Ninth Smithson. Report 1854, 325, New Jersey; New York.

**Genus 456. AMBLOPLITES Rafinesque. Rock Bass.**

*Ambloplites* Rafinesque, Ichth. Ohiensis, 33, 1820 (*ichtheloides* = *rupestris*).

**1413. *Ambloplites rupestris* (Rafinesque). Common Rock Bass; Red-eye; Red-eye Perch; Goggle-eye.**

Vermont to Great Lakes region and Manitoba, south to Louisiana; very abundant west of the Alleghanies.

*Bodianus rupestris* Rafinesque, Am. Month. Mag., 1817, 120, Lakes of New York, Vermont, and Canada.

**1413a. *Ambloplites rupestris cavifrons* Cope.**

Roanoke River, Virginia.

*Ambloplites cavifrons* Cope, Jour. Ac. Nat. Sci. Phila. 1868, 217, Roanoke River, Virginia.

**Genus 457. ARCHOPLITES Gill.**

*Archoplites* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 165 (*interruptus*).

**1414. *Archoplites interruptus* (Girard). Sacramento Perch.**

Sacramento and San Joaquin rivers, California.

*Centrarchus interruptus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 129, San Joaquin and Sacramento rivers, California.

**Genus 458. CHÆNOBRYTTUS Gill.**

*Chænobryttus* Gill, Amer. Jour. Sci. Arts 1864, 92 (*melanops* = *gulosus*).

**1415. *Chænobryttus gulosus* (Cuvier & Valenciennes). Warmouth; "Goggle-eye."**

Eastern United States from the Great Lakes to Florida and Texas, west to Kansas and the Dakotas; chiefly west or south of the Alleghanies; common in South Carolina.

*Pomotis gulosus* Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 498, 1829, Lake Pontchartrain and lagoons about New Orleans.

**Genus 459. ENNEACANTHUS Gill.**

*Enneacanthus* Gill, Amer. Jour. Sci. Arts 1864, 92 (*obesus*).

**1416. *Enneacanthus obesus* (Baird).**

Charles River, Massachusetts, to Florida.

*Pomotis obesus* Baird, Ninth Smithson. Report, 1854, 324, Beesley Point, New Jersey.

**1417. *Enneacanthus gloriosus* (Holbrook).**

Atlantic States, from New Jersey to Florida.

*Bryttus gloriosus* Holbrook, Jour. Ac. Nat. Sci. Phila. 1855, 51, Cooper River, South Carolina.

**Genus 460. MESOGONISTIUS Gill.**

*Mesogonistius* Gill, Amer. Jour. Sci. Arts 1864, 92 (*chaetodon*).

**1418. *Mesogonistius chaetodon* (Baird). Black-banded Sunfish.**

New Jersey to Maryland.

*Pomotis chaetodon* Baird, Ninth Smithson. Report, 1854, 324, Cedar Swamp Creek, New Jersey.





**Genus 461. APOMOTIS Rafinesque.***Apomotis* Rafinesque, Jour. de Physique 1819, 420 (*cyanellus*).

- 1419. *Apomotis cyanellus* (Rafinesque).**
- Red-eye; Blue-spotted Sunfish; Green Sunfish; Little Red-eye.*

Great Lakes region to Mexico; very abundant from Ohio southwestward to the Rio Grande.

*Lepomis cyanellus* Rafinesque, Jour. de Physique 1819, 420, Ohio River.

- 1420. *Apomotis ischyryus* (Jordan & Nelson).**

Upper Mississippi Valley.

*Lepiopomus ischyryus* Jordan & Nelson, Bull. U. S. Nat. Mus., x, 25, 1877, Illinois River, Illinois.

- 1421. *Apomotis phenax* Cope & Jordan.**

Beesley Point, New Jersey.

*Apomotis phenax* Cope & Jordan, Bull. U. S. Nat. Mus., x, 26, 1877, Beesley Point, New Jersey; locality possibly erroneous.

- 1422. *Apomotis punctatus* (Cuvier & Valenciennes).**

South Carolina to Florida.

*Bryttus punctatus* Cuvier & Valenciennes, Hist. Nat. Poiss., vii, 462, 1831, Charleston, South Carolina.

- 1423. *Apomotis symmetricus* (Forbes).**

Mississippi Valley; Illinois to Louisiana and Texas.

*Lepomis symmetricus* Forbes, in Jordan & Gilbert, Synopsis, 473, 1883, Illinois River, Illinois.**Genus 462. LEPOMIS Rafinesque. The Sunfishes.***Lepomis* Rafinesque, Jour. de Physique 1819, 402 (*auritus*).**Subgenus LEPOMIS Rafinesque.**

- 1424. *Lepomis auritus* (Linnæus).**
- Yellowbelly; Redbreast Bream.*

Maine to Louisiana; abundant in all streams east of the Alleghanies.

*Labrus auritus* Linnæus, Syst. Nat., ed. x, 283, 1758, Philadelphia.

- 1424a. *Lepomis auritus solis* (Cuvier & Valenciennes).**

Virginia to Louisiana, in coastwise streams.

*Pomotis solis* Cuvier & Valenciennes, Hist. Nat. Poiss., vii, 468, 1831, Lake Pontchartrain, Louisiana.

- 1425. *Lepomis miniatus* Jordan.**

Mississippi Valley; southern Illinois to Louisiana and Texas.

*Lepomis miniatus* Jordan, Bull. U. S. Nat. Mus., x, 26, 1877, Tangipahoa River.**Subgenus XENOTIS Jordan.***Xenotis* Jordan, Proc. Ac. Nat. Sci. Phila. 1877, 76 (*fallax*).

- 1426. *Lepomis garmani* Forbes.**

Lower Wabash River basin.

*Lepomis garmani* Forbes, Bull. Ill. Lab. Nat. Hist., vol. ii, art. 2, 135, January, 1885, Little Fox River at Phillipstown, and Wabash River and Drew Pond at Carmi, Illinois.

- 1427. *Lepomis megalotis* (Rafinesque).**
- Long-eared Sunfish.*

Michigan to Minnesota, South Carolina, and southward to the Rio Grande.

*Ichthelis megalotis* Rafinesque, Ichth. Ohienensis, 29, 1820, Kentucky, Licking, and Sandy rivers, Kentucky.**Subgenus HELIOPERCA Jordan.***Helioperca* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 335 (*pallidus*).

- 1428. *Lepomis humilis* (Girard).**
- Red-spotted Sunfish.*

Ohio and Kentucky to the Dakotas, Kansas, and Texas; locally abundant, especially in the lower Missouri Basin.

Girard, Proc. Ac. Nat. Sci. Phila. 1857, 201, Sugar Loaf

**1429. *Lepomis haplognathus* Cope.**

Monterey, Nuevo Leon, Mexico.

*Lepomis haplognathus* Cope, Proc. Amer. Philos. Soc. 1884 (1885), 168, Monterey, Nuevo Leon, Mexico.

**1430. *Lepomis macrochirus* Rafinesque.**

Ohio Valley and southwestward to Missouri and Kentucky.

*Lepomis macrochira* Rafinesque, Jour. de Physique 1819, 420, Ohio, Wabash, Green, and Licking rivers.

**1431. *Lepomis pallidus* (Mitchill). *Blue-gill*; *Blue Bream*; *Blue Sunfish*; *Copper-nosed Bream*; *Dollardee*.**

Great Lakes to Florida and the Rio Grande.

*Labrus pallidus* Mitchill, Trans. Lit. and Philos. Soc. N. Y. 1815, 407, New York.

**Genus 463. *EUPOMOTIS* Gill & Jordan.**

*Eupomotis* Gill & Jordan, Field and Forest 1877, 190 (*aureus* = *gibbosus*).

**Subgenus *XYSTROPLITES* Jordan.**

*Xystroplites* Jordan, in Cope, Proc. Amer. Philos. Soc., xvii, 1878, 67 (*gillii* = *pallidus*).

**1432. *Eupomotis pallidus* (Agassiz).**

Georgia to Texas.

*Pomotis pallidus* Agassiz, Amer. Jour. Sci. Arts 1854, 903 (name preoccupied in *Lepomis* by *Labrus pallidus* Mitchill, but not in *Eupomotis*).

**Subgenus *EUPOMOTIS* Gill & Jordan.**

**1433. *Eupomotis heros* (Baird & Girard).**

Southern Indiana to Florida and the Rio Grande Basin.

*Pomotis heros* Baird & Girard, Proc. Ac. Nat. Sci. Phila., March, 1854, 25, Rio Cibolo, Texas.

**1434. *Eupomotis holbrooki* (Cuvier & Valenciennes).**

Virginia to Florida.

*Pomotis holbrooki* Cuvier & Valenciennes, Hist. Nat. Poiss., vii, 466, 1831, Charleston, South Carolina.

**1435. *Eupomotis euryorus* (McKay).**

Upper Great Lakes region.

*Lepomis euryorus* McKay, Proc. U. S. Nat. Mus. 1881, 89, Lake Huron at Fort Gratiot, Michigan.

**1436. *Eupomotis gibbosus* (Linnæus). *Common Sunfish*; *Bream*; *Pumpkin-seed*; *Sunny*; *Tobacco-box*.**

Great Lakes region to Maine, and southward to Florida, east of the Alleghanies.

*Perca gibbosa* Linnæus, Syst. Nat., ed. x, 293, 1758, Carolina; after *Perca fluriatilis gibbosa*, ventre luteo, of Catesby.

**Genus 464. *MICROPTERUS* Lacépède. *Black Bass*.**

*Micropterus* Lacépède, Hist. Nat. Poiss., iv, 325, 1802 (*dolomieu*).

**1437. *Micropterus dolomieu* Lacépède. *Small-mouthed Black Bass*.**

Lake Champlain to Manitoba and southward on both sides of the mountains to South Carolina and Arkansas.

*Micropterus dolomieu* Lacépède, Hist. Nat. Poiss., iv, 325, 1802, type locality uncertain, perhaps South Carolina.

**1438. *Micropterus salmoides* (Lacépède). *Large-mouthed Black Bass*; *Oswego Bass*; *Green Bass*; *Bayou Bass*.**

Rivers of the United States, from the Great Lakes and Red River of the North to Florida, Texas, and Mexico; west to the Dakotas, Nebraska, and Kansas.

*Labrus salmoides* Lacépède, Hist. Nat. Poiss., iv, 716, 1802, South Carolina.



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## Family CXLIV. KUHLIDÆ.

## Genus 465. KUHLIA Gill.

*Kuhlia* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 48 (*ciliatus*).

1439. *Kuhlia arge* Jordan & Bollman.

Galapagos and Revillagigedo archipelagoes.

*Kuhlia arge* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 159, Chatham Island, Galapagos Archipelago.

1440. *Kuhlia xenura* (Jordan & Gilbert).

Tropical seas; probably west coast of Central America.

*Xenichthys xenurus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 454, type locality supposed to be San Salvador.

## Family CXLV. PERCIDÆ. The Perches.

## Genus 466. STIZOSTEDION Rafinesque. American Pike-perches.

*Stizostedion* Rafinesque, Ichth. Ohiensis, 23, 1820 (*salmonca*=*vitreum*).

## Subgenus STIZOSTEDION Rafinesque.

1441. *Stizostedion vitreum* (Mitchill). Wall-eyed Pike; Pike-perch; Dory; Glass-eye; Yellow Pike; Blue Pike; Jack Salmon; White-eye.

Great Lakes region, Upper Mississippi, north to Assiniboia; east to Vermont and Pennsylvania, south to Georgia and Alabama, especially common northward.

*Perca vitrea* Mitchill, Supp. Am. Month. Mag., II, 1818, 247, Cayuga Lake, N. Y.

## Subgenus CYNOPERCA Gill &amp; Jordan.

*Cynoperca* Gill & Jordan, Bull. U. S. Nat. Mus., x, 44, 1877 (*canadense*).

1442. *Stizostedion canadense* (Smith). Sanger; Sand Pike.

Northeastern North America, from Vermont and the Great Lakes to Tennessee, Arkansas, and the upper Missouri; especially abundant northward.

*Lucioperca canadense* C. H. Smith, in Griffith's edition of Cuvier's Règne Animal, Fishes, 275, pl. 1, 1836, Canada.

1442a. *Stizostedion canadense griseum* (DeKay). Sanger; Sand Pike; Gray Pike; Pickering.

Great Lakes region and southwestward to Kentucky and Arkansas.

*Lucioperca grisea* DeKay, New York Fauna: Fishes, 19, 1842, New York.

1442b. *Stizostedion canadense boreum* (Girard).

Upper Missouri Basin.

*Lucioperca borea* Girard, Proc. Ac. Nat. Sci. Phila. 1857, 201, Fort Sarpi, Nebr.

## Genus 467. PERCA (Artedi) Linnaeus. River Perch.

*Perca* (Artedi) Linnaeus, Syst. Nat., ed. x, i, 1758, and ed. xii, i, 481, 1766 (*auriatis*).

1443. *Perca flavescens* (Mitchill). Yellow Perch; American Perch; Ringed Perch; Raccoon Perch.

Fresh waters of the eastern United States, chiefly northward and eastward; abundant in the Great Lakes and in coastwise streams from Nova Scotia to North Carolina; common in the tributaries of the Upper Mississippi, especially in Iowa and Minnesota; unknown from central Ohio southward; not known from the Ohio River or the lower Missouri.

*Morone flavescens* Mitchill, Rept. Fish. N. Y., 18, 1814, near New York City.

## Genus 468. PERCINA Haldeman. Log Perches.

*Percina* Haldeman, Jour. Ac. Nat. Sci. Phila., VIII, 1842, 330 (*nehmlona*).

1444. *Percina rex* (Jordan & Evermann).

Roanoke River, Roanoke, Virginia.

*Etheostoma rex* Jordan & Evermann, Proc. U. S. Nat. Mus. 1888, 357, Roanoke River, near Roanoke, Va.



- 1445. *Percina caprodes* (Rafinesque).** *Log Perch; Rockfish; Hog-molly; Hogfish.*  
Great Lakes and streams of the South and West from Quebec to Lake Superior, Iowa, and south to Texas, Mississippi, and the Rio Grande.  
*Sciæna caprodes* Rafinesque, Amer. Month. Mag. 1818, 534, Ohio River.

- 1445a. *Percina caprodes zebra* (Agassiz).** *Manitou Darter.*  
Lakes of northern Indiana, Michigan, Wisconsin, and northward to Lake Superior.  
*Pileoma zebra* Agassiz, Lake Superior, 308, 1850, Lake Superior.

**Genus 469. HADROPTERUS Agassiz.** *Black-sided Darters.*  
*Hadropterus* Agassiz, Am. Jour. Sci. Arts 1854, 305 (*nigrofasciatus*).

**Subgenus ALVORDIUS Girard.**  
*Alvordius* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 68 (*maculatus*).

- 1446. *Hadropterus phoxocephalus* (Nelson).**  
Ohio to Iowa, south to Kentucky and Oklahoma, in sandy rivers; locally common.  
*Etheostoma phoxocephalum* Nelson, Bull. Ill. Lab. Nat. Hist., 1, 35, 1876, Illinois River and its tributaries.

- 1447. *Hadropterus macrocephalus* (Cope).**  
West slope of the Alleghanies from Pennsylvania southward in mountain streams; known from Youghiogheny River, Pennsylvania; North Fork of Holston River, Saltville, Virginia; Middle Fork of Holston River; Glade Spring, Virginia; Big Sandy, Upper Green, and Cumberland rivers, Kentucky; Clinch River, Tennessee.  
*Etheostoma macrocephalum* Cope, Trans. Amer. Philos. Soc. 1866, 400, Youghiogheny River, Pennsylvania.

- 1448. *Hadropterus maculatus* (Girard).**  
Fort Gratiot, Lake Huron.  
*Alvordius maculatus* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 67, Fort Gratiot, Michigan.

- 1449. *Hadropterus aspro* (Cope & Jordan).** *Black-sided Darter.*  
Great Lakes region to the middle Missouri and north to Minnesota, southward through Missouri, Indiana, and Kentucky to Arkansas: especially common in the Ohio Valley.  
*Alvordius aspro* Cope & Jordan, Proc. Ac. Nat. Sci. Phila. 1877, 51, White River, Indianapolis, Indiana; substitute for *Etheostoma blennioides* of Kirtland and Agassiz.

- 1450. *Hadropterus guntheri* (Eigenmann & Eigenmann).**  
Souris River, Winnipeg, south to Iowa.  
*Etheostoma guntheri* Eigenmann & Eigenmann, Am. Nat., November, 1892, 963, Souris River, Winnipeg, and Cedar River near Cedar Rapids, Iowa.

- 1451. *Hadropterus peltatus* (Stauffer).**  
Southeastern Pennsylvania, southward to South Carolina in coastwise streams.  
*Etheostoma peltatum* Stauffer, in Cope, Proc. Ac. Nat. Sci. Phila. 1864, 233, Conestoga Creek, near Lancaster, Pennsylvania.

- 1452. *Hadropterus ouachitæ* (Jordan & Gilbert).**  
Southern Indiana, western Kentucky, southwest to Arkansas, not rare; known from Patoka River, Indiana; lower Green and Obion rivers, Kentucky; Saline River, Arkansas.  
*Etheostoma* (*Hadropterus*) *ouachitæ* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1887, 49, Saline River, Benton, Arkansas, a tributary of the Washita.

- 1453. *Hadropterus roanoka* (Jordan & Jenkins).**  
Roanoke River, Virginia.  
*Etheostoma roanoka* Jordan & Jenkins, Proc. U. S. Nat. Mus. 1888, 338, Roanoke River, near Roanoke, Virginia.





**Subgenus ERICOSMA** Jordan & Copeland.

*Ericosma* Jordan & Copeland, Bull. U. S. Nat. Mus., x, 8, 1877 (*evides*)

**1454. *Hadropterus evides* (Jordan & Copeland).**

Indiana, in the Wabash Basin, west to Cedar River, Iowa, and southward in Arkansas, Kentucky, and Tennessee; French Broad River and the Ozark region.

*Alvordius evides* Jordan & Copeland, Proc. Ac. Nat. Sci. Phila. 1877, 51, White River near Indianapolis, Indiana.

**Subgenus SERRARIA** Gilbert.

*Serraria* Gilbert, Proc. U. S. Nat. Mus. 1884, 205 (*scierus*).

**1455. *Hadropterus scierus* Swain.**

Northern Indiana to Tennessee and Texas.

*Hadropterus scierus* Swain, Proc. U. S. Nat. Mus. 1883, 252, Bean Blossom Creek, Monroe County, Indiana.

**1455a. *Hadropterus scierus serrula* Jordan & Gilbert.**

From southern Arkansas southward through eastern Texas.

*Hadropterus scierus serrula* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 16, Red River, Fulton, Arkansas.

**Subgenus HADROPTERUS** Agassiz.

*Hadropterus* Agassiz, Am. Jour. Sci. Arts, xvii, 1854, 305 (*nigrofasciatus*).

**1456. *Hadropterus nigrofasciatus* Agassiz. *Crawl-a-bottom*.**

South Carolina to Louisiana.

*Hadropterus nigrofasciatus* Agassiz, Am. Jour. Sci. Arts, xvii, 1854, 305, Mobile, Alabama.

**Genus 470. HYPOHOMUS** Cope.

*Hypohomus* Cope, Proc. Amer. Phil. Soc. Phila. 1870, 449 (*aurantiacus*).

**Subgenus SWAINIA** Jordan & Evermann.

*Swainia* Jordan & Evermann, Fishes North and Middle America, 1040, 1896 (*squamatus*).

**1457. *Hypohomus squamatus* (Gilbert & Swain).**

Upper Tennessee River basin; known from Watauga and French Broad rivers.

*Etheostoma* (*Hadropterus*) *squamatus* Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 50, French Broad River at mouth of Wolf Creek, Tennessee.

**Subgenus HYPOHOMUS** Cope.**1458. *Hypohomus aurantiacus* (Cope).**

Upper Tennessee Basin; North Fork of Holston, Clinch, Watauga, and French Broad rivers.

*Cottogaster aurantiacus* Cope, Jour. Ac. Nat. Sci. Phila. 1869, 211, North Fork of Holston River, Saltville, Virginia.

**1459. *Hypohomus cymatotænia* (Gilbert & Meek).**

Western Kentucky and southern Missouri.

*Etheostoma* (*Hadropterus*) *cymatotænia* Gilbert & Meek, Proc. U. S. Nat. Mus. 1887, 51, Niangua River and Osage Fork of the Gasconade near Marshfield, Missouri; Sac River near Greenfield, Missouri.

**1460. *Hypohomus nianguæ* (Gilbert & Meek).**

Niangua River, Missouri.

*Etheostoma* (*Hadropterus*) *nianguæ* Gilbert & Meek, Proc. U. S. Nat. Mus. 1887, 52, Niangua River near Marshfield, Missouri.

**1461. *Hypohomus spilotos* (Gilbert).**

Kentucky River.

*Etheostoma nianguæ spilotos* Gilbert, Proc. U. S. Nat. Mus. 1887, 53, Sturgeon Creek, a tributary of Kentucky River, near Travellers Rest, Owsley County, Kentucky.

Genus 471. **COTTOGASTER** Putnam.

*Cottogaster* Putnam, Bull. Mus. Comp. Zool., 1, 5, 1863 (*tessellatum* Thompson, not of DeKay = *copelandi*).

Subgenus **COTTOGASTER** Putnam.

1462. *Cottogaster uranidea* Jordan & Gilbert.

Lower Wabash Basin to southern Missouri, south through Arkansas and Alabama to Escambia River, Florida.

*Etheostoma* (*Cottogaster*) *uranidea* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1887, 48, Washita River, Arkadelphia, Arkansas.

1463. *Cottogaster copelandi* (Jordan).

Great Lakes region, from Lake Champlain to Lake Huron and south to the Black Warrior, westward to Missouri and through the Ozark region, where it is abundant, as also about Indianapolis in clear brooks.

*Rheocrypta copelandi* Jordan, Bull. U. S. Nat. Mus., x, 9, 1877, White River near Indianapolis, Indiana.

Subgenus **IMOSTOMA** Jordan.

*Imostoma* Jordan, Proc. Ac. Nat. Sci. Phila. 1877, 49 (*shumardi*).

1464. *Cottogaster shumardi* (Girard).

Michigan, Ohio, Indiana, and Illinois southward to Kentucky and Arkansas.

*Hadropterus shumardi* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 100, Arkansas River near Fort Smith, Arkansas.

Genus 472. **ULOCENTRA** Jordan.

*Ulocentra* Jordan, Man. Vert. E. U. S., ed. 2, 223, 1878 (*atripinis*).

1465. *Ulocentra stigmæa* (Jordan). *Speck*.

Tennessee and Arkansas to Georgia and Louisiana.

*Bolcosoma stigmæum* Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 311, small tributaries of Etowah and Oostanaula rivers near Rome, Georgia.

1466. *Ulocentra gilberti* Evermann & Thoburn.

Clinch River at Walker Ford, near Tazewell, Tennessee.

*Ulocentra gilberti* Evermann & Thoburn, in Jordan & Evermann, Fishes of North and Middle America, 1049, 1896, Clinch River at Walker Ford, near Tazewell, Claiborne County, Tennessee.

1467. *Ulocentra verecunda* (Jordan & Evermann).

Tributaries of Holston River, Virginia.

*Etheostoma verecundum* Jordan & Evermann, Proc. U. S. Nat. Mus. 1888, 360, Middle Fork of Holston River, about 5 miles south of Glade Spring, Virginia.

1468. *Ulocentra histrio* Jordan & Gilbert.

Southern Indiana, southwestward to Arkansas; known from the lower Wabash and tributaries, Green River, Kentucky, and Black, Poteau, and Washita rivers, Arkansas.

*Etheostoma* (*Ulocentra*) *histrio* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1887, 47, Poteau River near Hackett City, Arkansas; Saline River at Benton, and Washita River at Arkadelphia, Arkansas.

1469. *Ulocentra simotera* (Cope).

Western Virginia, eastern Kentucky and Tennessee, in the basins of the Green, Cumberland, and Tennessee rivers, southward through Alabama to the Escambia River.

*Hyostoma simotrum* Cope, Jour. Ac. Nat. Sci. Phila. 1868, 215, Holston River and its tributaries, near Nashville, Tennessee.

1470. *Ulocentra phlox* (Cope).

Trinity River, Texas.

*Bolcosoma phlox* Cope, Bull. U. S. Nat. Mus., xvii, 30, 1880, Trinity River at Fort Worth, Texas.





**Genus 473. DIPLESION Rafinesque.***Diplesion* Rafinesque, Ichth. Ohiensis, 37, 1820 (*blennioides*).**1471. *Diplesion blennioides* Rafinesque. Green-sided Darter.**

Pennsylvania to South Dakota and Kansas, south to lower Alabama Basin.  
*Etheostoma (Diplesion) blennioides* Rafinesque, Jour. de Physique 1819, 419,  
 Ohio River.

**Genus 474. BOLEOSOMA DeKay. Tessellated Darters.***Boleosoma* DeKay, New York Fauna: Fishes, 20, 1842 (*tessellatum* = *olmstedii*).**1472. *Boleosoma longimanus* (Jordan).**

James River, Virginia; recorded from North River at Loch Laird, Virginia;  
 Buffalo Creek near Lexington, Virginia; Elk Creek near Natural Bridge,  
 Virginia.

*Etheostoma longimana* Jordan, Proc. Ac. Nat. Sci. Phila. 1888, 179, tributary of  
 James River, Virginia.

**1473. *Boleosoma podostemone* (Jordan & Jenkins).**

Roanoke River basin, Virginia.

*Etheostoma podostemone* Jordan & Jenkins, Proc. U. S. Nat. Mus. 1888, 359,  
 Roanoke River at Roanoke, Salem, and Alleghany Spring, Virginia.

**1474. *Boleosoma nigrum* (Rafinesque). Johnny Darter.**

Eastern United States, Ohio Valley, Great Lakes region, and Upper Mis-  
 sissippi, west to Colorado and north to Manitoba.

*Etheostoma nigrum* Rafinesque, Ichth. Ohiensis, 37, 1820, Green River, Ken-  
 tucky.

**1474a. *Boleosoma nigrum olmstedii* (Storer). Tessellated Darter; Grand Orankee.**

Lake Ontario to Massachusetts and south to North Carolina east of the  
 Alleghanies.

*Etheostoma olmstedii* Storer, Jour. Bost. Soc. Nat. Hist., iv, 1841, 61, pl. 5, fig. 2,  
 Hartford, Connecticut.

**1474b. *Boleosoma nigrum effulgens* (Girard).**

Maryland to North Carolina.

*Arlina effulgens* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 64, brooks and streams  
 flowing into Potomac River.

**1474c. *Boleosoma nigrum vexillare* (Jordan).**

Tributaries of the James, Roanoke, and Rappahannock rivers.

*Boleosoma rerillare* Jordan, Proc. U. S. Nat. Mus. 1880, 237, Rappahannock  
 River at Warrenton, Virginia.

**1474d. *Boleosoma nigrum maculaticeps* Cope.**

Upper waters of Catawba River, North Carolina.

*Boleosoma maculaticeps* Cope, Proc. Amer. Philos. Soc. 1870, 269, upper waters  
 of Catawba River, North Carolina.

**1474e. *Boleosoma nigrum mesæum* (Cope).**

Platte River near Fort Kearney, Nebraska.

*Pacilichthys mesæus* Cope, Proc. Ac. Nat. Sci. Phila. 1864, 232, Platte River  
 near Fort Kearney, Nebraska.

**1475. *Boleosoma susanæ* Jordan & Swain.**

Basin of upper Cumberland River, Kentucky.

*Boleosoma susana* Jordan & Swain, Proc. U. S. Nat. Mus. 1883, 249, Wolf Creek  
 and other tributaries of the Clear Fork of Cumberland River, near  
 Pleasant View, Whitley County, Kentucky.

**Subgenus VAILLANTIA Jordan.***Vaillantia* Jordan, Bull. U. S. Nat. Mus., xii, 89, 1878 (*camurum*).**1476. *Boleosoma camurum* Forbes.**

Indiana to Iowa and Mississippi, southwest to Houston, Texas.

*Boleosoma camura* Forbes, Bull. Ill. Lab. Nat. Hist., i, 40, 1878 (name preoccu-  
 pied in *Etheostoma*, not in *Boleosoma*); Cache River and Clear Creek,  
 Union County; Johnson County, and Pekin, Illinois.



**Genus 475. CRYSTALLARIA Jordan & Gilbert.**

*Crystallaria* Jordan & Gilbert, in Jordan, Cat. Fishes N. A., 78, 1885 (*asprellus*).

**1477. Crystallaria asprella (Jordan).**

Southern Indiana and Illinois to Arkansas and Alabama, chiefly in the larger, clearer streams. Recorded from Ohio River at Rising Sun, Indiana; Wabash River at New Harmony, Vincennes, and Terre Haute; Green River, Kentucky; Choctolo Creek, Alabama, and Washita River, Arkansas; besides the original locality in Illinois.

*Pleurolepis asprellus* Jordan, Bull. Ill. Lab. Nat. Hist., II, 38, 1878, rocky tributary of Mississippi River in Hancock County, Illinois.

**Genus 476. AMMOCRYPTA Jordan. Sand Darters.**

*Ammocrypta* Jordan, Bull. U. S. Nat. Mus., x, 6, 1877 (*beanii*).

**1478. Ammocrypta pellucida (Baird). Sand Darter.**

Lake Erie to Minnesota, Kentucky, and Texas.

*Pleurolepis pellucidus* Baird, in Agassiz, Bull. Mus. Comp. Zool., I, 5, 1863, no locality; the specimens from Black River, Ohio, the types of *Etheostoma pellucidum* Baird ms. 1853.

**1478a. Ammocrypta pellucida clara Jordan & Meek.**

Mississippi Valley, Wabash River west to central Iowa and Minnesota, and south to Arkansas and northern Texas.

*Ammocrypta clara* Jordan & Meek, Proc. U. S. Nat. Mus. 1885, 8, Des Moines River, Ottumwa, Iowa.

**1478b. Ammocrypta pellucida vivax (Hay).**

Mississippi and northwest through Arkansas and south to Texas.

*Ammocrypta vivax* Hay, Bull. U. S. Fish Com., II, 1882 (1883), 58, Pearl River, Jackson, Mississippi.

**1479. Ammocrypta beanii Jordan.**

Gulf States, Alabama to Louisiana.

*Ammocrypta beanii* Jordan, Bull. U. S. Nat. Mus., x, 5, 1877, Nottabany River, Tickfaw, Louisiana.

**Genus 477. IOA Jordan & Brayton.**

*Ioa* Jordan & Brayton, Bull. U. S. Nat. Mus., XII, 88, 1878 (*ritrea*).

**1480. Ioa vitrea (Cope).**

Southeastern Virginia and eastern North Carolina.

*Pacilichthys ritreus* Cope, Proc. Amer. Philos. Soc. Phila. 1870, 263, Walnut Creek, a tributary of Neuse River, Wake County, North Carolina.

**1481. Ioa vigil Hay.**

Pearl River, Jackson, Mississippi.

*Ioa vigil* Hay, Bull. U. S. Fish Com. II, 1882 (1883), 59, Pearl River, Jackson, Mississippi.

**Genus 478. ETHEOSTOMA Rafinesque.**

*Etheostoma* Rafinesque, Jour. de Physique 1819, 419 (*caprodes*, *blennioides*, *flabellaris*; first restricted by Agassiz, 1854, to *aspro*, wrongly identified as "*blennioides*"; restricted by Cope & Jordan 1877 to *flabellaris*).

**Subgenus PECILICHTHYS Agassiz.**

*Pacilichthys* Agassiz, Am. Jour. Sci. Arts 1854, 305 (*variatus*).

**1482. Etheostoma variatum Kirtland.**

Ohio River basin, from western Pennsylvania to Kentucky.

*Etheostoma variatum* Kirtland, Zoology of Ohio, 168, 192, 1838, Mahoning River, Ohio.





**Subgenus NANOSTOMA Putnam.**

*Nanostoma* Putnam, in Jordan, Bull. U. S. Nat. Mus., x, 6, 1877 (*zonalis*);  
not *Nannostomus* Günther.

**1483. *Etheostoma swannanoa* Jordan & Evermann.**

Upper waters of the Tennessee River in Middle and South Forks of the  
Holston and the South Fork of the Swannanoa.

*Etheostoma swannanoa* Jordan & Evermann, Proc. U. S. Nat. Mus. 1888, 360,  
South Fork of Holston River, Holstein Mills, Virginia; Middle Fork of  
Holston River, Marion, Virginia, and South Fork of Swannanoa River,  
Black Mountain, North Carolina.

**1484. *Etheostoma thalassinum* (Jordan & Brayton).**

Santee River basin in North and South Carolina.

*Nothonotus thalassinus* Jordan & Brayton, Bull. U. S. Nat. Mus., xii, 13, 1878,  
Reedy River, Greenville, South Carolina; Catawba River and tributaries  
in North Carolina; Ennoree River, Chick Springs, South Carolina, and  
Saluda River, Farr's Mill, South Carolina.

**1485. *Etheostoma inscriptum* (Jordan & Brayton).**

Oconee River, Georgia.

*Nothonotus inscriptus* Jordan & Brayton, Bull. U. S. Nat. Mus., xii, 34, 1878,  
Oconee River, Sulphur Springs, Hall County, Georgia.

**1486. *Etheostoma blennius* Gilbert & Swain.**

Northern Alabama, in streams tributary to the Tennessee River.

*Etheostoma (Rhothaea) blennius* Gilbert & Swain, Proc. U. S. Nat. Mus. 1887,  
55, Cox Creek and Shoal Creek, tributary to Tennessee River, Florence,  
Alabama.

**1487. *Etheostoma rupestre* Gilbert & Swain.**

North River, a tributary of Black Warrior River, Alabama.

*Etheostoma rupestre* Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 57, North  
River, near Tuscaloosa, Alabama.

**1488. *Etheostoma elegans* (Hay).**

Chickasawha River, Mississippi.

*Nanostoma elegans* Hay, Proc. U. S. Nat. Mus. 1880, 493, shallow rocky branch  
of Chickasawha River, Enterprise, Mississippi.

**1489. *Etheostoma zonale* (Cope).**

Mississippi Valley from Ohio and northern Indiana (Kankakee River) west  
through Iowa and south through Kentucky and Tennessee into Ala-  
bama, Louisiana, and Arkansas.

*Paeilichthys zonalis* Cope, Jour. Ac. Nat. Sci. Phila. 1868, 212, Holston River,  
Virginia.

**1489a. *Etheostoma zonale arcansanum* Jordan & Gilbert.**

Ozark region of Missouri and Arkansas.

*Etheostoma zonale arcansanum* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886,  
5, Spring River, Carthage, Missouri; James River, Marshfield, Missouri;  
Poteau River, Hackett City, Arkansas; Washita River, Arkadelphia,  
Arkansas, and Saline River, Benton, Arkansas.

**Subgenus NOTHONOTUS Agassiz.**

*Nothonotus* Agassiz, Bull. Mus. Comp. Zool., i, 3, 1863 (*maculatus*).

**1490. *Etheostoma camurum* (Cope). *Blue-breasted Darter*.**

Indiana and Ohio to Tennessee.

*Paeilichthys camurus* Cope, Proc. Amer. Philos. Soc. Phila. 1870, 265, head-  
waters of Cumberland River in Tennessee.

**1491. *Etheostoma vulneratum* (Cope).**

French Broad River.

*Paeilichthys vulneratus* Cope, Proc. Amer. Philos. Soc. Phila. 1870, 268, tribu-  
tary of French Broad River, Warm Springs, North Carolina.

1492. *Etheostoma maculatum* Kirtland.

Ohio and Indiana southward through Kentucky and Tennessee to northern Alabama, in tributaries of the Wabash, Ohio, Cumberland, and Tennessee rivers.

*Etheostoma maculata* Kirtland, Jour. Bost. Soc. Nat. Hist. 1840, 276, Mahoning River, Ohio.

1493. *Etheostoma cinereum* Storer.

Tennessee and Cumberland rivers; Tennessee River at Florence, Alabama; Obeys River at Olympus, Tennessee; Rock Creek near Whitley Station, Kentucky.

*Etheostoma cinerea* Storer, Proc. Bost. Soc. Nat. Hist. 1845, 49, Florence, Ala.

1494. *Etheostoma tessellatum* Storer.

Florence, Alabama.

*Etheostoma tessellata* Storer, Proc. Bost. Soc. Nat. Hist. 1845, 48, Tennessee River at Florence, Alabama.

1495. *Etheostoma rufilelineatum* (Cope).

Upper tributaries of the Tennessee, Cumberland, and Green rivers.

*Pacilichthys rufilelineatus* Cope, Proc. Amer. Philos. Soc. 1870, 267, Warm Springs Creek, French Broad River, Madison County, North Carolina.

1496. *Etheostoma jordani* Gilbert.

Tributaries of Coosa River in the Alabama River basin.

*Etheostoma* (*Nothonotus*) *jordani* Gilbert, Bull. U. S. Fish Com., ix, 1889 (1891), 156, pl. 43, fig. 3, Choocolo Creek, Oxford, Alabama, and Chestnut Creek, Verbena, Alabama.

Subgenus *TORRENTARIA* Jordan & Evermann.

*Torrentaria* Jordan & Evermann, Fishes N. and M. Am., 1080, 1896 (*australe*).

1497. *Etheostoma sagitta* (Jordan & Swain).

Cumberland River.

*Pacilichthys sagitta* Jordan & Swain, Proc. U. S. Nat. Mus. 1883, 250, Wolf Creek, near Pleasant View, Whitley County, Kentucky.

1498. *Etheostoma australe* Jordan.

Chihuahua River, Mexico, in Rio Grande Basin.

*Etheostoma australe* Jordan, Proc. U. S. Nat. Mus. 1884, 362, Chihuahua River, Mexico; based on the types of *Diplecion fasciatus* Girard.

Subgenus *NIVICOLA* Jordan & Evermann.

*Niricola* Jordan & Evermann, Fishes N. and M. Am., 1082, 1896 (*boreale*).

1499. *Etheostoma boreale* (Jordan).

St. Lawrence River at Montreal, Canada.

*Pacilichthys borealis* Jordan, Proc. U. S. N. M. 1884, 477, Montreal, Canada.

Subgenus *RAFINESQUIELLUS* Jordan & Evermann.

*Rafinesquiellus* Jordan & Evermann, Fishes N. and M. Am., 1082, 1896 (*pottsi*).

1500. *Etheostoma pottsi* (Girard).

Streams of Chihuahua, Mexico, in Rio Grande Basin.

*Aplecion pottsi* (misprinted *potsii*) Girard, Proc. Ac. Nat. Sci. Phila. 1859, 102, tributaries of Chihuahua River, Mexico.

Subgenus *OLIGOCEPHALUS* Girard.

*Oligocephalus* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 67 (*lepidus*).

1501. *Etheostoma iowæ* Jordan & Meek.

Upper Mississippi Valley from Iowa and Nebraska north to Assiniboia: common northwestward.

*Etheostoma iowa* Jordan & Meek, Proc. U. S. Nat. Mus. 1885, 10, Chariton River, Chariton, Iowa.

1502. *Etheostoma jessiae* (Jordan & Brayton).

Indiana to Iowa and south to Mississippi and Texas.

*Pacilichthys jessiae* Jordan & Brayton, in Jordan, Man. Vert., ed. 2, 227, 1877, Chickamauga River, Ringgold, Georgia.





- 1503. *Etheostoma luteovinctum* Gilbert & Swain.**  
 Stone River, Tennessee.  
*Etheostoma luteovinctum* Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 58,  
 Stone River near Nashville, Tennessee.
- 1504. *Etheostoma lepidogenys* Evermann & Kendall.**  
 Rio Comal, Texas.  
*Etheostoma lepidogenys* Evermann & Kendall, Bull. U. S. Fish Com., xii,  
 1892 (Feb. 6, 1894), 114, pl. 35, fig. 3, Rio Comal, New Braunfels, Texas.
- 1505. *Etheostoma coeruleum* Storer. *Blue Darter*; *Rainbow Darter*; *Soldier-fish*.**  
 Mississippi Valley; Ohio Valley.  
*Etheostoma coeruleum* Storer, Proc. Bost. Soc. Nat. Hist. 1845, 47.
- 1505a. *Etheostoma coeruleum spectabile* (Agassiz).**  
 Mississippi Valley, Indiana to Missouri.  
*Pacilichthys spectabilis* Agassiz, Am. Jour. Sci. Arts 1854, 304, Osage River,  
 Missouri.
- 1506. *Etheostoma lepidum* (Baird & Girard).**  
 Streams of Arkansas, Texas, and Chihuahua.  
*Boleosoma lepidum* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 388, upper  
 tributaries of the Rio Nueces, Texas.
- 1507. *Etheostoma tippecanoe* Jordan & Evermann.**  
 Tippecanoe River, Indiana.  
*Etheostoma tippecanoe* Jordan & Evermann, Proc. U. S. Nat. Mus. 1890, 3,  
 (figure that of *Etheostoma camurum* by mistake), Tippecanoe River,  
 Marshland, Indiana.
- 1508. *Etheostoma punctulatum* (Agassiz).**  
 Ozark region of southwestern Missouri.  
*Pacilichthys punctulatus* Agassiz, Am. Jour. Sci. Arts 1854, 304, Osage River,  
 Missouri.
- 1509. *Etheostoma oragini* Gilbert.**  
 Western portion of the Arkansas River basin, from Garden City, Kansas, to  
 Canyon City, Colorado.  
*Etheostoma oragini* Gilbert, Bull. Washburn College Laboratory for March  
 and April, 1885, 99, small stream connecting the "Lake" at Garden  
 City, Kansas, with Arkansas River.
- 1510. *Etheostoma obeyense* Kirsch.**  
 Tributaries of Cumberland River in Clinton County, Kentucky.  
*Etheostoma obeyense* Kirsch, Bull. U. S. Fish Com., x, 1890 (1892), 292, Indian  
 Creek, Spring Creek, Smith Creek, and Albany Branch, all tributaries  
 of Cumberland River in Clinton County, Kentucky.
- 1511. *Etheostoma pagei* Meek.**  
 Spring branch, tributary to Neosho River, Neosho, Mo., in Arkansas Basin.  
*Etheostoma pagei* Meek, Am. Nat. 1894, 957, spring branch on U. S. Fish  
 Commission grounds, Neosho, Missouri.
- 1512. *Etheostoma virgatum* (Jordan).**  
 Tributaries of Cumberland River in western Kentucky.  
*Pacilichthys virgatus* Jordan, Proc. U. S. Nat. Mus. 1879, 236, Rock Castle  
 River, Livingston, Kentucky.
- Subgenus CLARICOLA Jordan & Evermann.**  
*Claricola* Jordan & Evermann, Fishes N. and M. Amer., 1093, 1896 (*juliae*).
- 1513. *Etheostoma juliae* Meek.**  
 Basin of White River, Missouri.  
*Etheostoma juliae* Meek, Bull. U. S. Fish Com., ix, 1889 (1891), 130, pl. 42,  
 fig. 2, James River, near Springfield, Missouri.
- 1514. *Etheostoma artesiæ* (Hay).**  
 Georgia to central Texas.  
*Pacilichthys artesiæ* Hay, Proc. U. S. Nat. Mus. 1880, 494, from a small  
 branch of Catawba River, Artesia, Lowndes County, Mississippi.



**1515. *Etheostoma alabamæ* (Gilbert & Swain).**

Black Warrior and Big Catawba rivers, Alabama.

*Etheostoma whipplei alabamæ* Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 62, Black Warrior River near Morris and Tuscaloosa, Alabama.

**1516. *Etheostoma whipplii* (Girard).**

Lower Arkansas Basin, locally abundant in clear tributaries of the Saline, Washita, etc.

*Boleichthys whipplii* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 103, Coal Creek, Arkansas.

**1517. *Etheostoma squamiceps* Jordan.**

Lower Wabash Valley, Indiana, through western Kentucky and Tennessee to Georgia and western Florida.

*Etheostoma squamiceps* Jordan, Bull. U. S. Nat. Mus., x, 11, 1877, Russellville, Kentucky.

Subgenus **ETHEOSTOMA** Rafinesque.

**1518. *Etheostoma flabellare* Rafinesque. *Fan-tailed Darter*.**

New York to Virginia, west to Iowa, and south to South Carolina and northern Alabama.

*Etheostoma flabellaris* Rafinesque, Jour. de Physique 1819, 419, tributaries of Ohio River.

**1518a. *Etheostoma flabellare cumberlandicum* (Jordan & Swain).**

Brooks in Cumberland Mountains tributary to Cumberland River.

*Etheostoma cumberlandicum* Jordan & Swain, Proc. U. S. Nat. Mus. 1883, 231, small streams of the Cumberland Mountains; Wolf Creek and Briar Creek near Pleasant View, Whitley County, Kentucky.

**1518b. *Etheostoma flabellare lineolatum* (Agassiz).**

Minnesota to northern Indiana and northern Missouri.

*Catnotus lineolatus* Agassiz, Am. Jour. Sci. Arts 1854, 305, small creek, near Quincy, Illinois.

**Genus 479. *ALVARIUS* Girard.**

*Alvarius* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 101 (*lateralis*).

**1519. *Alvarius lateralis* Girard.**

Rio Grande.

*Alvarius lateralis* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 101, mouth of Rio Grande.

**Genus 480. *PSYCHROMASTER* Jordan & Evermann.**

*Psychromaster* Jordan & Evermann, Fishes North and Middle America, 1099, 1896 (*tuscumbia*).

**1520. *Psychromaster tuscumbia* (Gilbert & Swain).**

Tennessee River basin in northern Alabama.

*Etheostoma tuscumbia* Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 63, streams flowing from the large spring at Tuscumbia, Alabama.

**Genus 481. *COPELANDELLUS* Jordan & Evermann.**

*Copelandellus* Jordan & Evermann, Fishes North and Middle America, 1100, 1896 (*quiescens*).

**1521. *Copelandellus quiescens* (Jordan).**

Swamps and streams of the lowlands from Virginia to Florida; known from Blackwater River, Zuni, Virginia; Allapaha River, Nashville, Georgia; and various streams in Florida.

*Pacilichthys quiescens* Jordan, Proc. U. S. Nat. Mus. 1884, 478, tributary of Allapaha River, Nashville, Georgia.

**Genus 482. *BOLEICHTHYS* Girard.**

*Boleichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 103 (*erilis*).

**1522. *Boleichthys fusiformis* (Girard).**

Massachusetts to the Rio Grande and west to Minnesota.

*leostoma fusiformis* Girard, Proc. Bost. Soc. Nat. Hist. 1854, 41, Charles River, Massachusetts.



Apogon atriscandae  
(Lacepede).

mus. bin. alba

superior in color only

... ..

**1523. *Boleichthys exilis* Girard.**

Upper Missouri River basin and Red River of the North.

*Boleichthys exilis* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 103, Little Muddy River, a tributary of the Upper Missouri.**Genus 483. MICROPERCA Putnam.***Microperca* Putnam, Bull. Mus. Comp. Zool., 1, 4, 1863 (*punctulata*).**1524. *Microperca procellaris* (Hay).**

Alabama and Mississippi, in lowland streams and ponds.

*Alvarius procellaris* Hay, Proc. U. S. Nat. Mus. 1880, 496, small branch of the Tuscumbia River at Corinth, Mississippi.**1525. *Microperca punctulata* Putnam. *Least Darter*.**

Northwestern States; Indiana, Michigan, and Minnesota, south to Arkansas; rare outside of tributaries of the Great Lakes.

*Microperca punctulata* Putnam, Bull. Mus. Comp. Zool., 1, 4, 1863, various points in Michigan, Wisconsin, Illinois, and Alabama; those from Alabama were probably *M. procellaris* (Hay).**1526. *Microperca fonticola* (Jordan & Gilbert).**

Arkansas and Texas, in clear rocky streams; known only from Washita River at Arkadelphia; San Marcos River at San Marcos, Texas; Comal Creek at New Braunfels, Texas.

*Alvarius fonticola* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 23, San Marcos River at San Marcos, Texas.**Family CXLVI. CHEILODIPTERIDÆ. The King of the Mulletts.****Genus 484. APOGON Lacépède. *King of Mulletts*.***Apogon* Lacépède, Hist. Nat. Poiss., III, 411, 1802 (*ruber* = *imberbis*).**1527. *Apogon imberbis* (Linnæus). *King of the Mulletts; Alfonsino; Fucinita*.**

Mediterranean and neighboring waters; one from Newport, Rhode Island, and one from the island of Fernando Noronha.

*Mullus imberbis* Linnæus, Syst. Nat., ed. x, 300, 1758, Malta; after Artedi.**1528. *Apogon dovii* Günther.**

Mazatlan to Panama.

*Apogon dovii* Günther, Proc. Zool. Soc. Lond. 1861, 371, Panama.**1529. *Apogon retrosella* (Gill). *Cardenal*.**

Pacific Coast of Mexico.

*Amia retrosella* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 251, Cape San Lucas.**1530. *Apogon maculatus* (Poey).**

Pensacola to Bahia; common on the "Snapper Banks"; often found in the stomachs of snappers and groupers.

*Monoprion maculatus* Poey, Memorias, II, 123, 1860, Cuba**1531. *Apogon binotatus* (Poey).**

Cuba.

*Amia binotata* Poey, Repertorio, 234, 1867, Cuba.**1532. *Apogon pigmentarius* (Poey).**

Cuba; common at Havana.

*Monoprion pigmentarius* Poey, Memorias, II, 123, 1860, Cuba.**Genus 485. APOGONICHTHYS Bleeker.***Apogonichthys* Bleeker, Floris, 321, 1854 (*perdir*).**1533. *Apogonichthys alutus* (Jordan & Gilbert).**

Snapper Banks off Pensacola and Tampa, Florida.

*Apogon alutus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 279, and in *Synopsis*, 931, 1883, Snapper Banks off Pensacola, Fla.

1534. *Apogonichthys stellatus* Cope.

Bahamas.

*Apogonichthys stellatus* Cope, Trans. Amer. Philos. Soc. 1866, 400, Nassau, Bahama Islands.

1535. *Apogonichthys puncticulatus* Poey.

Cuba.

*Apogonichthys puncticulatus* Poey, Repertorio, II, 233, 1867, Cuba.

Genus 486. *GLOSSAMIA* Gill.

*Glossamia* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 82 (*apron*).

1536. *Glossamia pandionis* (Goode & Bean).

Deep water off Chesapeake Bay.

*Apogon pandionis* Goode & Bean, Proc. U. S. Nat. Mus. 1881, 160, deep water off Chesapeake Bay.

Genus 487. *EPIGONUS* Rafinesque.

*Epigonus* Rafinesque, Indice Ittiol. Sicil., 64, 1810 (*macrophthalmus* = *telescopum*).

1537. *Epigonus occidentalis* Goode & Bean.

Off Barbados.

*Epigonus occidentalis* Goode & Bean, Oceanic Ichthyology, 233, 1896, off Barbados.

Genus 488. *CHEILODIPTERUS* Lacépède.

*Cheilodipterus* Lacépède, Hist. Nat. Poiss., III, 539, 1802 (*salatrix*, *macrodon*, etc.; restricted by Cuvier & Valenciennes in 1828 to *macrodon*).

1538. *Cheilodipterus affinis* Poey.

Cuba.

*Cheilodipterus affinis* Poey, Ann. Ac. Nat. Sci. N. Y., XI, 1876, 58, Havana.

Genus 489. *AMIICHTHYS* Poey.

*Amiichthys* Poey, in Jordan, Proc. U. S. Nat. Mus. 1886, 586 (*diapterus*).

1539. *Amiichthys diapterus* (Poey).

Cuba.

Genus? — *diapterus* Poey, Synopsis, 305, 1861, Cuba.

Genus 490. *SPHYRÆNOPS* Gill.

*Sphyrænops* Gill, in Poey, Memorias, II, 349, 1861 (*bairdianus*).

1540. *Sphyrænops bairdianus* Poey.

Cuba.

*Sphyrænops bairdianus* Poey, Memorias, II, 350, 1861, Cuba.

Genus 491. *SCOMBROPS* Temminck & Schlegel.

*Scombrops* Temminck & Schlegel, Fauna Japonica, 118, 1842 (*cheilodipteroides*).

Subgenus *LATEBRUS* Poey.

*Latebrus* Poey, Memorias, II, 168, 1860 (*oculatus*).

1541. *Scombrops oculatus* (Poey). *Escolar Chino*.

Coast of Cuba.

*Latebrus oculatus* Poey, Memorias, II, 168, with plate, 1860, Cuba.

Genus 492. *HYPOCLYDONIA* Goode & Bean.

*Hypoclydonia* Goode & Bean, Oceanic Ichthyology, 236, fig. 237, 1896 (*bella*).

1542. *Hypoclydonia bella* Goode & Bean.

Gulf Stream.

*Hypoclydonia bella* Goode & Bean, Oceanic Ichthyology, 236, 1896, Gulf Stream at Albatross Stations 2314 in 159 fathoms, 2397 in 280 fathoms, 2401 in 142 fathoms, 2417 in 95 fathoms, 2418 in 90 fathoms, 2425 in 119 fathoms, and 2426 in 93 fathoms.

*Astrapogon* Farley (*stellatus*)  
Proc Phil. 1906. 3

*Scypheria*

?, 1543

1547. ? = 1146.

( 1555 = 1556

## Family CXLVII. CENTROPOMIDÆ. The Robalos.

Genus 493. CENTROPOMUS Lacépède. *Robalos*.

*Centropomus* Lacépède, Hist. Nat. Poiss., iv, 248, 1802 (*lucioperca*, *undecimalis*, etc.; restricted to *undecimalis* by Cuvier & Valenciennes).

1543. *Centropomus viridis* Lockington. *Robalo*.

Pacific Coast of Mexico; common from Gulf of California to Panama.

*Centropomus viridis* Lockington, Proc. Cal. Ac. Sci., vii, 1876 (1877), 110, off Ascension Island, Lower California.

1544. *Centropomus undecimalis* (Bloch). *Robalo*; *Sergeant-fish*; *Snook*; *Brochet de Mer*.

Coasts of Florida and Texas southward among the West Indies to Surinam or beyond.

*Soiama undecimalis* Bloch, Ichthyol., vi, 60, pl. 303, 1792, Jamaica.

1545. *Centropomus nigrescens* Günther. *Robalo Prieto*.

Pacific Coast of tropical America; generally common from Mazatlan to Panama.

*Centropomus nigrescens* Günther, Fishes Central America, 407, 1869, Chiapas.

1546. *Centropomus pedimacula* Poey. *Constantino de las Aletas Prietas*; *Robalito de las Aletas Prietas*.

Both coasts of tropical America; common in Cuba, Jamaica, and south to Brazil and from Mazatlan to Panama.

*Centropomus pedimacula* Poey, Memorias, ii, 122, 1860, Havana and Cienfuegos, Cuba.

1547. *Centropomus grandoculatus* Jenkins & Evermann.

Pacific Coast of Mexico.

*Centropomus grandoculatus* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 139, Guaymas, Sonora.

1548. *Centropomus ouvieri* Bocourt.

Haiti.

*Centropomus ouvieri* Bocourt, Ann. Sc. Nat. Paris 1868, 91, Haiti.

1549. *Centropomus mexicanus* Bocourt.

Both coasts of Mexico; recorded from Gulf of Mexico and from Oaxaca.

*Centropomus mexicanus* Bocourt, Ann. Sc. Nat. Paris 1868, 90, Gulf of Mexico.

1550. *Centropomus parallelus* Poey.

Coasts of Cuba; San Domingo, Jamaica, Barbados, and Rio Chagres; Guiana, Pernambuco, and Bahia.

*Centropomus parallelus* Poey, Memorias, ii, 120, 1860, Havana and Cienfuegos, Cuba.

1551. *Centropomus pectinatus* Poey.

Coasts of Cuba.

*Centropomus pectinatus* Poey, Memorias, ii, 122, 1860, Havana and Cienfuegos, Cuba.

1552. *Centropomus unionensis* Bocourt.

Pacific Coast of Central America; rather common at Panama.

*Centropomus unionensis* Bocourt, Ann. Sc. Nat. Paris 1868, 90, La Union, San Salvador.

1553. *Centropomus armatus* Gill.

Pacific Coast of Central America; common from Chiapas to Panama.

*Centropomus armatus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 163, Panama.

1554. *Centropomus robalito* Jordan & Gilbert. *Constantino*; *Robalito de las Aletas Amarillas*.

Pacific Coast of Mexico from Mazatlan to Panama.

*Centropomus robalito* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 462, Mazatlan; Acapulco.

1555. *Centropomus affinis* Steindachner.

Coast of Brazil, north to Belize.

*Centropomus affinis* Steindachner, Ichth. Notizen, i, 1, pl. 1, fig. 1, 1864, Rio Janeiro and Cahahiba, Brazil; Demerara.



**1556. *Centropomus ensiferus* Poey.**

West Indies; generally common from Cuba to Surinam.

*Centropomus ensiferus* Poey, *Memorias*, II, 122, 1860, Havana.**Family CXLVIII. SERRANIDÆ. The Sea Basses.****Genus 494. ROCCUS Mitchill. *Striped Basses*.***Roccus* Mitchill, *Fishes of New York*, 25, 1814 (*striatus* = *lineatus*).**Subgenus LEPIBEMA Rafinesque.***Lepibema* Rafinesque, *Ichth. Ohiensis*, 23, 1820 (*chrysops*).**1557. *Roccus chrysops* (Rafinesque). *White Bass*; *White Lake-Bass*.**

Great Lakes region, Upper Mississippi and Ohio valleys, south to Washita River.

*Perca chrysops* Rafinesque, *Ichth. Ohiensis*, 22, 1820, Falls of the Ohio.**Subgenus ROCCUS Mitchill.****1558. *Roccus lineatus* (Bloch). *Striped Bass*; *Rockfish*; *Rock*.**

Atlantic coasts of North America from New Brunswick to Escambia River, Florida; introduced by the U. S. Fish Commission into Sacramento River, California.

*Sciaena lineata* Bloch, *Ichth.*, IX, 53, pl. 305, 1792, "Mediterranean."**Genus 495. MORONE Mitchill. *White Perch*.***Morone* Mitchill, *Fishes of New York*, 18, 1814 (*rufa* and *flavescens*); the genus properly a synonym of *Perca*.**1559. *Morone interrupta* Gill. *Yellow Bass*.**Lower Mississippi Valley north to Cincinnati, Terre Haute, and St. Louis.  
*Morone interrupta* Gill, *Proc. Ac. Nat. Sci. Phila.* 1860, 118, St. Louis; New Orleans.**1560. *Morone americana* (Gmelin). *White Perch*.**

Atlantic Coast of North America from Nova Scotia to South Carolina in brackish water, ascending streams, and frequently landlocked in ponds.

*Perca americana* Gmelin, *Syst. Nat.*, I, III, 1308, 1788, New York; after Schöpl.**Genus 496. LIOPROPOMA Gill.***Liopropoma* Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 236 (*aberrans*).**1561. *Liopropoma aberrans* Poey.**

Coast of Cuba.

*Perca aberrans* Poey, *Memorias*, II, 125, 1860, Cuba.**Genus 497. CHORISTISTIUM Gill.***Chorististium* Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 236 (*rubrum*).**1562. *Chorististium rubrum* (Poey).**

Coast of Cuba.

*Liopropoma rubra* Poey, *Memorias*, II, 418, 1861, Havana.**Genus 498. STEREOLEPIS Ayres. *Jewfishes*.***Stereolepis* Ayres, *Proc. Cal. Ac. Sci.* 1859, 28 (*gigas*).**1563. *Stereolepis gigas* Ayres. *California Jewfish*.**

Coast of California, north to the Farallones.

*Stereolepis gigas* Ayres, *Proc. Cal. Ac. Sci.* 1859, 28, southern California.**Genus 499. POLYPRION Cuvier. *Wreckfishes*.***Polyprion* Cuvier, in *Valenciennes. Mém. Mus.*, XI, 265, 1824 (*cernium*).**1564. *Polyprion americanus* (Bloch & Schneider). *Wreckfish*; *Stone Bass*; *Cernier*.**

Off coast of Europe; Gulf Stream.

*Amphiprion americanus* Bloch & Schneider, *Syst. Ichth.*, 205, pl. 47, 1801, based on a drawing sent by Latham to Schneider representing some fish called in America "gnom"; called *Amphiprion australis* on pl. 47.

Labrax neplacis' Dicentrarchus  
for L. lupus

Chrysoperca (interrupta)  
Jordan, Proc. Phila 1917.



**Genus 500. GONIOPECTRUS Gill. Spanish Flags.***Gonioplectrus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 236, 237 (*hispanum*).**1565. *Gonioplectrus hispanus* (Cuvier & Valenciennes). "Spanish Flag"; *Ouatilibi Espagnol*; *Biajaiba de lo Alto*.**

West Indies; Cuba.

*Plectropoma hispanus* Cuv. & Val., Hist. Nat. Poiss., II, 396, 1828, Martinique.**Genus 501. PETROMETOPON Gill. Enjambres.***Petrometopon* Gill, Proc. Ac. Nat. Sci. Phila. 1865, 105 (*guttatus* Poey = *cruentatus*).**1566. *Petrometopon panamensis* (Steindachner).**

Panama.

*Serranus panamensis* Steindachner, Ichth. Beitr., IV, 1, with plate, 1871, Panama.**1567. *Petrometopon cruentatus* (Lacépède). *Enjambre*; *Coney*; *Rock Hind*.**

West Indian fauna, Brazil to Florida Keys; very common on Cuba coast.

*Sparus cruentatus* Lacépède, Hist. Nat. Poiss., IV, 157, pl. 4, fig. 1, 1803, Martinique; on a copy of Plumier's drawing.**1567a. *Petrometopon cruentatus coronatus* (Cuvier & Valenciennes).**

West Indies, north to Key West.

*Serranus coronatus* Cuv. & Val., Hist. Nat. Poiss., II, 371, 1828, Martinique.**Genus 502. BODIANUS Bloch. Jacob Evertzens.***Bodianus* Bloch, Ichthyologia, 1790 (*guttatus*, *bodianus*, etc., species with entire preopercle and spine on opercle). *Emneacanthus* Gill**1568. *Bodianus tæniops* (Cuvier & Valenciennes).**

West coast of Africa, straying to Florida.

*Serranus tæniops* Cuv. & Val., Hist. Nat. Poiss., II, 370, 1828, Cape Verde.**1569. *Bodianus fulvus* (Linnæus). *Guatirere*; *Nigger-fish*; *Yellow-fish*; *Butter-fish*; *Lemon-yellow Butter-fish*; *Guatirere Amarilla*.**

West Indies; Bermuda and Florida Keys to Bahia.

*Labrus fulvus* Linnæus, Syst. Nat., ed. x, 287, 1758, Bahamas; after Catesby.**1569a. *Bodianus fulvus ruber* (Bloch & Schneider). *Red Guatirere*; *Ouatilibi*; *Rock Hind*.**

West Indies, etc.; very common.

*Gymnocephalus ruber* Bloch & Schneider, Syst. Ichth., 346, pl. 67, 1801, on *Carana* of Marcgrave; not *Epinephelus ruber* Bloch.**1568b. *Bodianus fulvus punctatus* (Linnæus). *Nigger-fish*; *Negro-fish*; *Black Guatirere*.**

West Indies, etc.; everywhere common.

*Perca punctata* Linnæus, Syst. Nat., ed. x, 291, 1758, Bahamas; based on Catesby.**Subgenus MENEPHORUS Poey.***Menephorus* Poey, Ann. Lyc. Nat. Hist. N. Y., x, 1869, 50 (*dubius*).**1570. *Bodianus dubius* (Poey).**

Cuba.

*Serranus dubius* Poey, Memorias, II, 142, 1860, Cuba.**1571. *Bodianus punctiferus* (Poey).**

Cuba.

*Menephorus punctiferus* Poey, Enumeratio, 21, 1875, Havana.**Subgenus ENNEISTUS Jordan & Evermann.***Enneistus* Jordan & Evermann, Fishes N. and M. Am., 1147, 1896 (*acanthistius*).**1572. *Bodianus acanthistius* Gilbert.**

Cape Lobos, eastern shore of Gulf of California.

*Bodianus acanthistius* Gilbert, Proc. U. S. N. M. 1891, 552, Cape Lobos, eastern shore of Gulf of California at Albatross Station 3017, in 58 fathoms.

Genus 503. **EPINEPHELUS** Bloch. *Groupers*.

*Epinephelus* Bloch, Ichthyologia, 1793 (after *marginalis*, *brunneus*, *niger*, *ruber*, etc.; restricted to *marginalis* by authors).

Subgenus **SCHISTORUS** Gill.

*Schistorus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 237 (*mystacinus*).

1573. **Epinephelus mystacinus** (Poey). *Cherna de lo Alto*.

West Indies south to Brazil.

*Serranus mystacinus* Poey, Memorias, i, 52, tab. 10, fig. 1, 1851, Cuba.

Subgenus **EPINEPHELUS** Bloch.

1574. **Epinephelus analogus** Gill. *Cabrilla Pinta*.

Pacific Coast of tropical America; common on Pacific Coast of Mexico.

*Epinephelus analogus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 163, Panama.

1575. **Epinephelus adscensionis** (Osbeck). *Rock Hind; Cabra Mora*.

West Indies; Florida Keys to Brazil; Ascension and St. Helena islands.

*Trachinus adscensionis* Osbeck, Iter Chin., etc., 1757, and English edition, 96, 1771, Ascension Island.

1576. **Epinephelus guaza** (Linnaeus). *Meron; Méro; Guasa*.

Coasts of southern Europe and western Africa, ranging north to England, southward to Cape of Good Hope, and westward to Rio Janeiro and to Guiana.

*Labrus guaza* Linnaeus, Syst. Nat., ed. x, 285, 1758, "Habitat in Pelago."

1577. **Epinephelus labriformis** (Jenyns).

Pacific Coast of tropical America; Cape San Lucas to Galapagos Islands.

*Serranus labriformis* Jenyns, Zool. Beagle, Fishes, 8, pl. 3, 1840, Galapagos.

1578. **Epinephelus flavolimbatus** Poey. *Yellow-finned Grouper*.

West Indies, north to Pensacola.

*Epinephelus flavolimbatus* Poey, Repertorio, i, 183, 1867, Cuba.

1579. **Epinephelus niveatus** (Cuvier & Valenciennes).

West Indies to Brazil, occasionally northward in the Gulf Stream as far as Newport, Rhode Island, and Woods Hole, Massachusetts.

*Serranus niveatus* Cuvier & Valenciennes, Hist. Nat. Poiss., ii, 380, 1828, Brazil.

1580. **Epinephelus striatus** (Bloch). *Nassau Grouper; Hamlet; Cherna Criolla; Grouper; Rockfish*.

West Indian fauna; Key West to Brazil.

*Anthias striatus* Bloch, Ichthyologia, pl. 324, 1792, Martinique; on figure by Plumier.

1581. **Epinephelus maculosus** (Cuvier & Valenciennes). *Cabrilla; Red Hind*.

West Indies, occasionally north to Charleston, Florida Keys, and the Bermudas; south to Brazil.

*Serranus maculosus* Cuvier & Valenciennes, Hist. Nat. Poiss., ii, 332, 1828, Martinique.

1582. **Epinephelus drummond-hayi** Goode & Bean. *Speckled Hind; John Paw*.

Bermudas, South Atlantic and Gulf Coast of United States; Charleston, South Carolina.

*Epinephelus drummond-hayi* Goode & Bean, Proc. U. S. Nat. Mus. 1878, 173, 174, Pensacola; Bermuda.

1583. **Epinephelus morio** (Cuvier & Valenciennes). *Red Grouper; Cherna Americana; Cherna de Virero; Nègre*.

Atlantic Coast of America, Virginia to Rio Janeiro.

*Serranus morio* Cuvier & Valenciennes, Hist. Nat. Poiss., ii, 285, 1828, New York and San Domingo.

*Epinephelus lightfooti* <sup>Forbes</sup>  
Proc Biol, 1907 San Domingo  
Am alpheids,

~~*Epinephelus*~~ ~~*nauphaoides*~~ <sup>^</sup> Gilbert,

*Epinephelus phaeostigmus* <sup>Forbes</sup>  
Hawaii, Proc. 1907.

1586. Belles =

*Alpheutes chlosopterus* Carr.

*Alpheutes egyptotis* (Fonds)

*Scamalocephus falcifer*.

Evermann & Kendall  
Key work.

**Genus 504. GARRUPA** Jordan. *Black Groupers.**Garrupa* Jordan, Bull. U. S. Fish Com., VIII, 1888 (1890), 353 (*nigritus*).

84. *Garrupa nigrita* (Holbrook). *Black Jewfish; Black Grouper; Mero de lo Alto.*  
 South Atlantic and Gulf Coast of the United States, Charleston and Pensacola to Cuba and Brazil; straying to Sicily.  
*Serranus nigritus* Holbrook, Ichth. South Carolina, ed. 1, 173, pl. 25, fig. 11, 1856, Charleston, S. C.

**Genus 505. PROMICROPS** Gill. *Guasas.**Promicrops* Gill, in Poey, Synopsis, 287, 1868 (*guasa*).

85. *Promicrops guttatus* (Linnæus). *Guasa; Spotted Jewfish; Merou.*  
 Both coasts of tropical America, north to Florida and Gulf of California, south to Brazil.  
*Perca guttata* Linnæus, Syst. Nat., x, 292, 1758; after Marcgrave, Willughby, etc.

**Genus 506. ALPHESTES** Bloch & Schneider.*Alphestes* Bloch & Schneider, Syst. Ichthyol., 236, 1801 (*afer*).

86. *Alphestes afer* (Bloch). *Quaseta.*  
 West Indies; Cuba to Brazil.  
*Epinephelus afer* Bloch, Ichthyologia, pl. 327, 1793, Acara, in Guinea.
87. *Alphestes multiguttatus* (Günther).  
 Pacific Coast of tropical America; Mazatlan to Panama.  
*Plectropoma multiguttatum* Günther, Proc. Zool. Soc. Lond. 1866, 600, Panama.

**Genus 507. DERMATOLEPIS** Gill.*Dermatolepis* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 54 (*punctatus*).**Subgenus LIOPERCA** Gill.*Lioperca* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 237 (*inermis*).

88. *Dermatolepis inermis* (Cuvier & Valenciennes):  
 West Indies.  
*Serranus inermis* Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 436, 1833, Antilles.

**Subgenus DERMATOLEPIS** Gill.*Dermatolepis* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 54 (*punctatus*).

89. *Dermatolepis punctatus* Gill.  
 West coast of Mexico; Cape San Lucas; the Venados; the Revillagigedos.  
*Dermatolepis punctatus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 54, Cape San Lucas.

**Genus 508. MYCTEROPERCA** Gill.*Mycteroperca* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 80 (*olfax*).**Subgenus ARCHOPERCA** Jordan & Evermann.*Archoperca* Jordan & Evermann, Fishes North and Middle America, 1171, 1896 (*boulengeri*).

90. *Mycteroperca boulengeri* Jordan & Starks. *Cabrilla Raizer; Mangrove Grouper.*  
 Mazatlan, Mexico.  
*Mycteroperca boulengeri* Jordan & Starks, in Jordan, Fishes Sinaloa, 445, pl. 38, 1895, taken in the Astillero at Mazatlan, Mexico.

**Subgenus TRISOTROPIS** Gill.*Trisotropis* Gill, Proc. Ac. Nat. Sci. Phila. 1865, 104 (*guttatus* = *venenosus*).

91. *Mycteroperca venenosa* (Linnæus). *Rockfish; Yellow-finned Grouper; Bonaci de Piedra.*  
 Bahamas, Florida Keys, and southward.  
*Perca venenosa* Linnæus, Syst. Nat., ed. x, 292, 1758, Bahamas; after Catesby.

*note: see*



- 1591a. *Mycteroperca venenosa apua* (Bloch). *Bonaci Cardinal*.  
West Indies, Florida Keys, and southward to Brazil.  
*Bodianus apua* Bloch, Ichth., VII, 87, taf. 229, 1790, Brazil; after a drawing by Prince Maurice—the same used by Marcgrave.
1592. *Mycteroperca bonaci* (Poey). *Marbled Rockfish*.  
West Indies, Pensacola to Brazil.  
*Serranus bonaci* Poey, Memorias, II, 129, 1860, Cuba.
- 1592a. *Mycteroperca bonaci xanthosticta* Jordan & Swain.  
Snapper Banks off Pensacola, Florida.  
*Mycteroperca bonaci xanthosticta* Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 371, Snapper Banks off Pensacola, Florida.
1593. *Mycteroperca jordani* (Jenkins & Evermann). *Cabrilla de Astillero; Boga*.  
Pacific Coast of Mexico from Gulf of California to Mazatlan.  
*Epinephelus jordani* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 140, Guaymas, Sonora.
1594. *Mycteroperca microlepis* (Goode & Bean). *Gog; Aguaji*.  
South Atlantic and Gulf Coast of the United States, north to Beaufort, North Carolina, and Pensacola, Florida.  
*Trisotrops microlepis* Goode & Bean, Proc. U. S. N. M. 1879, 141, west Florida.
1595. *Mycteroperca interstitialis* (Poey).  
Coast of Cuba.  
*Serranus interstitialis* Poey, Memorias, II, 127, 1860, Cuba.
1596. *Mycteroperca dimidiata* (Poey).  
Coast of Cuba.  
*Serranus dimidiatus* Poey, Memorias, II, 129, 1860, Cuba.
1597. *Mycteroperca xenarcha* Jordan.  
Galapagos Archipelago; coast of Peru.  
*Mycteroperca xenarcha* Jordan, Proc. Ac. Nat. Sci. Phila. 1887, 387, Galapagos Islands; Payta.
- Subgenus PAREPINEPHELUS Bleeker.  
*Parepinephelus* Bleeker, Systema Percarum Revisum, 257, 1875 (*acutirostris*).
1598. *Mycteroperca rubra* (Bloch). *Scirenga*.  
West Indies, Brazil, Mediterranean Sea, and islands of the eastern Atlantic.  
*Epinephelus ruber* Bloch, Ichthyologia, VII, 22, 1793, pl. 330, "Japan."
- Subgenus XYSTROPERCA Jordan & Evermann.  
*Xystroperca* Jordan & Evermann, Fishes North and Middle America, 1181, 1896 (*pardalis*).
1599. *Mycteroperca pardalis* Gilbert. *Cabrilla Pirritita*.  
Gulf of California.  
*Mycteroperca pardalis* Gilbert, Proc. U. S. Nat. Mus. 1891, 551, La Paz Bay, Lower California.
- Subgenus MYCTEROPERCA Gill.
1600. *Mycteroperca olfax* (Jenyns). *Yellow Grouper*.  
James Island, Galapagos Archipelago; Panama.  
*Serranus olfax* Jenyns, Zool. Beagle, Fishes, 9, pl. 4, 1840, Galapagos Islands.
- 1600a. *Mycteroperca olfax ruberrima* Jordan & Bollman.  
Abingdon Island, Galapagos Archipelago.  
*Mycteroperca olfax ruberrima* Jordan & Bollman, in Jordan & Eigenmann, Review Serranidæ, 367, 1890, Abingdon Island, Galapagos Archipelago.
1601. *Mycteroperca rosacea* (Streets). *Cabrilla Calamaria*.  
Gulf of California.  
*Epinephelus rosaceus* Streets, Bull. U. S. Nat. Mus., VII, 51, 1877, Angel Island, Gulf of California.

~~Mycteropora.~~

| Noe's genera?

*Mycteropora hopkinsi* J. St. Jamaica.

- 1602. *Mycteroperca falcata* (Poey). *Scamp; Bacalao; Abadejo*.  
West Indies, north to Bermuda.  
*Serranus falcatus* Poey, *Memorias*, II, 138, 1860, Havana.**
- 1602a. *Mycteroperca falcata phenax* Jordan & Swain. *Scamp; Bacalao*.  
Coasts of southern Florida, abundant about the Keys.  
*Mycteroperca falcata phenax* Jordan & Swain, *Proc. U. S. Nat. Mus.* 1884, 363, Key West, Florida.**
- 1603. *Mycteroperca venadorum* Jordan & Starks. *Garlopa*.  
West coast of Mexico at Mazatlan.  
*Mycteroperca venadorum* Jordan & Starks, in Jordan, *Proc. Cal. Ac. Sci.* 1895, 446, Mazatlan, Mexico.**
- 1604. *Mycteroperca calliura* Poey.  
Coast of Cuba.  
*Mycteroperca calliura* Poey, *Repertorio*, I, 181, 309, 1867, Cuba.**
- 1605. *Mycteroperca tigris* (Cuvier & Valenciennes). *Bonaci Gato; Rockfish*.  
West Indies, north to Bermuda.  
*Serranus tigris* Cuv. & Val., *Hist. Nat. Poiss.*, IX, 440, 1833, San Domingo.**
- 1605a. *Mycteroperca tigris camelopardalis* (Poey).  
West Indies.  
*Serranus camelopardalis* Poey, *Memorias*, II, 132, 1860, Havana.**
- Genus 509. CRATINUS Steindachner.  
*Cratinus* Steindachner, *Ichth. Beitr.*, VII, 19, 1878 (*agassizii*).**
- 1606. *Cratinus agassizii* Steindachner.  
Galapagos Archipelago.  
*Cratinus agassizii* Steindachner, *Ichth. Beitr.*, VII, 19, 1878, Galapagos Islands.**
- Genus 510. HYPOPLECTRUS Gill. *Vacas*.  
*Hypoplectrus* Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 236 (*puella*).**
- 1607. *Hypoplectrus lamprurus* (Jordan & Gilbert).  
Panama.  
*Serranus lamprurus* Jordan & Gilbert, *Bull. U. S. Fish Com.*, I, 1881, 322, Panama.**
- 1608. *Hypoplectrus unicolor* (Walbaum). *Vaca; Petit-nègre*.  
West Indies, north to Florida Keys.  
*Percia unicolor* Walbaum, *Artedi Piscium*, III, 352, 1792, locality unknown.**
- 1608a. *Hypoplectrus unicolor puella* (Cuvier & Valenciennes). *Vaca*.  
Martinique.  
*Plectropoma puella* Cuvier & Valenciennes, *Hist. Nat. Poiss.*, II, 405, pl. 37, 1828, Martinique.**
- 1608b. *Hypoplectrus unicolor vitulinus* (Poey).  
Havana.  
*Plectropoma vitulinum* Poey, *Memorias*, I, 68, 1851, Havana.**
- 1608c. *Hypoplectrus unicolor pinnivarius* Poey.  
Havana.  
*Hypoplectrus pinnivarius* Poey, *Synopsis*, 291, 1868, Havana.**
- 1608d. *Hypoplectrus unicolor guttavarius* (Poey).  
Havana.  
*Plectropoma guttavarium* Poey, *Memorias*, I, 70, 1851, Havana.**
- 1608e. *Hypoplectrus unicolor gummigutta* (Poey).  
Havana.  
*Plectropoma gummigutta* Poey, *Memorias*, I, 70, 1851, Havana.**
- 1608f. *Hypoplectrus unicolor crocotus* (Cope).  
West Indies.  
*Plectropoma crocota* Cope, *Trans. Am. Phil. Soc. Phila.*, XIV, 1871, 466, St. Martin, West Indies.**

1608g. *Hypoplectrus unicolor aberrans* Poey.

Havana.

*Hypoplectrus aberrans* Poey, Synopsis, 291, 1868, Havana.

1608h. *Hypoplectrus unicolor aacensus* (Poey).

Havana.

*Plectropoma aacensum* Poey, Memorias, i, 72, 1851, Havana.

1608i. *Hypoplectrus unicolor affinis* (Poey).

Havana.

*Plectropoma affine* Poey, Memorias, ii, 427, 1861, Havana.

1608j. *Hypoplectrus unicolor chlorurus* (Cuvier & Valenciennes).

Martinique.

*Plectropoma chlorurum* Cuv. & Val., Hist. Nat. Poiss., ii, 406, 1828, Martinique.

1608k. *Hypoplectrus unicolor nigricans* (Poey).

Havana.

*Plectropoma nigricans* Poey, Memorias, i, 71, 1851, Havana.

1608l. *Hypoplectrus unicolor indigo* (Poey). *Afil.*

Havana.

*Plectropoma indigo* Poey, Memorias, i, 69, pl. 3, fig. 1, 1851, Havana.

1608m. *Hypoplectrus unicolor bovinus* (Poey).

Havana.

*Plectropoma bovinum* Poey, Memorias, i, 69, 1851, Havana.

1609. *Hypoplectrus gemma* Goode & Bean.

Florida Keys; known from one specimen from Garden Key, Florida.

*Hypoplectrus gemma* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 428, Garden Key, Florida.

Genus 511. *PARALABRAX* Girard. *Cabrillas Verdes*.

*Paralabrax* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 131 (*nebulifer*).

1610. *Paralabrax nebulifer* (Girard). "*Johnny Verde*."

Southern California, from Monterey to Magdalena Bay.

*Labrax nebulifer* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 142, Monterey, Cal.

1611. *Paralabrax maculatofasciatus* (Steindachner). *Spotted Cabrilla*.

Pacific coast of America from Lower California to San Pedro and Mazatlan.

*Serranus maculatofasciatus* Steindachner, Ichth. Notizen, vii, 5, 1868, Mazatlan, Mexico.

1612. *Paralabrax humeralis* (Cuvier & Valenciennes).

Pacific Coast of South America; Panama to Juan Fernandez.

*Serranus humeralis* Cuv. & Val., Hist. Nat. Poiss., ii, 246, 1828, Chile.

1613. *Paralabrax clathratus* (Girard). *Cabrilla*; *Rock Bass*.

Coast of southern California, from San Francisco to the Cerros Islands.

*Labrax clathratus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 143, San Diego.

Genus 512. *CENTROPRISTES* Cuvier & Valenciennes. *Black Sea-bass*.

*Centropristes* Cuvier, Hist. Nat. Poiss., iii, 36, 1829 (*nigricans*).

Subgenus *CENTROPRISTES* Cuvier & Valenciennes.

1614. *Centropristes rufus* Cuvier & Valenciennes.

Martinique.

*Centropristes rufus* Cuv. & Val., Hist. Nat. Poiss., iii, 47, 1829, Martinique.

1615. *Centropristes striatus* (Linnaeus). *Black Sea-bass*; *Blackfish*; *Tally-wag*; *Hannahill*; *Black Will*; *Black Harry*.

Atlantic Coast of United States, Cape Ann to northern Florida.

*Labrus striatus* Linnaeus, Syst. Nat., ed. x, 285, 1758, "America"; description very brief, but not to be referred to any other fish.





**1616. *Centropristes ocyurus* (Jordan & Evermann). *Gulf Sea-bass*.**

Gulf of Mexico at Snapper Banks off Pensacola, Florida.

*Serranus ocyurus* Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 468, Snapper Banks off Pensacola, Florida.Subgenus **TRILOBURUS** Gill.*Triloburus* Gill, Cat. Fish. East Coast U. S., 30, 1861 (*trifurca*).**1617. *Centropristes philadelphicus* (Linnæus).**

Coast of South Carolina.

*Perca philadelphica* Linnæus, Syst. Nat., ed. x, 291, 1758, America.**Genus 513. *DIPLECTRUM* Holbrook. *Squirrel-fishes*.***Diplectrum* Holbrook, Ichthyology of South Carolina, ed. 1, 32, 1856 (*fasciularis* = *formosus*).Subgenus **HALIPERCA** Gill.*Haliperca* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 236 (*bivittatus* = *radialis* and other species; restricted to *bivittatus* by Jordan & Gilbert, Syn., 535).**1618. *Diplectrum sciurus* Gilbert.**

Gulf of California.

*Diplectrum sciurus* Gilbert, Proc. U. S. Nat. Mus. 1891, 550, Gulf of California, at Albatross stations Nos. 3014, 3021, 3026, and 3033, all in shallow water.**1619. *Diplectrum radiale* (Quoy & Gaimard). *Aguarina*.**

Both coasts of tropical America, north to Havana and Guaymas; common on the coast of Brazil and in the Gulf of California.

*Serranus radialis* Quoy & Gaimard, Voyage Uranie, 316, 1824, Rio Janeiro.**1620. *Diplectrum macropoma* (Günther).**

Pacific Coast of tropical America.

*Centropristis macropoma* Günther, Proc. Zool. Soc. Lond. 1864, 145, Panama.**1621. *Diplectrum euryplectrum* Jordan & Bollman.**

Coast of Colombia, southwest of Panama.

*Diplectrum euryplectrum* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 157, Pacific Ocean, off coast of Colombia.Subgenus **DIPLECTRUM** Holbrook.**1622. *Diplectrum formosum* (Linnæus). *Squirrel-fish*; *Serrano*; *Sandfish*.**

West Indies; common on the South Atlantic and Gulf coasts of the United States, from Charleston south to Montevideo.

*Perca formosa* Linnæus, Syst. Nat., ed. xii, 488, 1766, Carolina.**Genus 514. *PRIONODES* Jenyns.***Prionodes* Jenyns, Voyage Beagle, Fishes, 46, 1840 (*fasciatus*).Subgenus **PRIONODES** Jenyns.**1623. *Prionodes æquidens* (Gilbert).**

Gulf of California.

*Serranus æquidens* Gilbert, Proc. U. S. Nat. Mus. 1890, 61, Gulf of California, at Albatross Station No. 2996, in 112 fathoms.**1624. *Prionodes fuscus* (Poey).**

Cuba.

*Centropristes fuscus* Poey, Memorias, II, 342, 1861, Havana.**1625. *Prionodes phæbe* (Poey). *Phæbe*.**

West Indies, north to Pensacola, Florida.

*Serranus phæbe* Poey, Memorias, I, 55, pl. 2, fig. 3, 1851, Havana.**1626. *Prionodes fasciatus* Jenyns.**

Pacific Coast of Mexico, Cape San Lucas to Galapagos Islands.

*Prionodes fasciatus* Jenyns, Voyage Beagle, Fishes, 46, 1840, Chatham Island, Galapagos Archipelago.



1627. *Prionodes bulleri* (Boulenger).

Coast of Jalisco, western Mexico.

*Serranus bulleri* Boulenger, Cat., i, 288, 1895, Las Peñas, Jalisco, Mexico.

Subgenus MENTIPERCA Gill.

*Mentiperca* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 236 (*luciopercanus*).

1628. *Prionodes tigrinus* (Bloch).

West Indies.

*Holocentrus tigrinus* Bloch, pl. 237, 1790, East Indies; after Loba, Thesaurus, iii, pl. xxvii, fig. 5.

1629. *Prionodes tabacarius* (Cuvier & Valenciennes). *Jacoms; Bout de Tabac*.

West Indies.

*Centropristes tabacarius* Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 44, 1829, Martinique.

1630. *Prionodes flavescens* (Cuvier & Valenciennes).

Martinique.

*Serranus flavescens* Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 506, 1830, Martinique.

1631. *Prionodes luciopercanus* (Poey).

Coast of Cuba.

*Serranus luciopercanus* Poey, Memorias, i, 56, pl. 9, fig. 1, 1851, Havana.

1632. *Prionodes stilbostigma* Jordan & Bollman.

Coast of Ecuador.

*Prionodes stilbostigma* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 158, Pacific Ocean off the coast of Ecuador, 0° 50' S., 89° 38' W., in 45 fathoms, at Albatross Station 2809.

Genus 515. *DULES* Cuvier.

*Dules* Cuvier, Règne Animal, ed. ii, vol. ii, 147, 1829 (*auriga*).

1633. *Dules subligarius* (Cope).

South Atlantic coasts of United States; known from Beaufort, Charleston, and Pensacola Snapper Banks.

*Centropristis subligarius* Cope, Proc. Ac. Nat. Sci. Phila. 1870, 120, Pensacola, Florida.

1634. *Dules dispilurus* (Günther). *Grassy-ground Rockfish*.

Trinidad; Jamaica.

*Centropristis dispinosus* Günther, Proc. Zool. Soc. Lond. 1867, 99, Trinidad.

1635. *Dules auriga* Cuvier & Valenciennes.

Coast of Brazil and Uruguay, occasionally northward.

*Dules auriga* Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 112, pl. 51, 1829, Brazil.

Genus 516. *PARANTHIAS* Guichenot.

*Paranthias* (Guichenot, Ann. Soc. Linn. Maine-et-Loire, x, 1868 (*furcifer = creolus*)).

1636. *Paranthias furcifer* (Cuvier & Valenciennes). *Rabirubia de lo Alto; Creole-fish*.

Both coasts of tropical America, Cuba to Brazil, Cape San Lucas to the Galapagos Archipelago.

*Serranus furcifer* Cuvier & Valenciennes, Hist. Nat. Poiss., ii, 264, 1828, Brazil.

Genus 517. *HEMIANTHIAS* Steindachner.

*Hemianthias* Steindachner, Ichth. Beitr., i, 4, 1874 (*peruanus*).

1637. *Hemianthias peruanus* Steindachner.

Coasts of Peru and Chile, occasionally northward; off the coast of Lower California.

*Anthias (Hemianthias) peruanus* Steindachner, Ichth. Beitr., i, 4, 1874, Payta; Truillo.

not Dulcis a genus of Birds  
Hence F. Endulcis Fowler  
& Callidiculus Fowler. (1907)  
subgenus.



**1638. Hemianthias vivanus** (Jordan & Swain).

Gulf of Mexico; Snapper Banks between Pensacola and Tampa, Florida.

*Anthias vivanus* Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 544, from stomach of a red snapper taken at the Snapper Banks off Pensacola, Florida.

**Genus 518. PRONOTOGRAMMUS** Gill.

*Pronotoграмmus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 81 (*multifasciatus*).

**1639. Pronotoграмmus eos** Gilbert.

Pacific Coast of tropical America.

*Pronotoграмmus eos* Gilbert, Proc. U. S. Nat. Mus. 1890, 62, west coast of Mexico, at Albatross Station 2996, in 112 fathoms.

**1640. Pronotoграмmus multifasciatus** Gill.

Cape San Lucas, Lower California.

*Pronotoграмmus multifasciatus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 81, Cape San Lucas, Lower California.

**Genus 519. ANTHIAS** Bloch. *Barbiers*.

*Anthias* Bloch, Auslanische Fische, vi, 97, 1792 (*anthias*).

**1641. Anthias asperilinguis** Günther.

Atlantic Coast of South America; only the type known.

*Anthias asperilinguis* Günther, Cat., i, 89, 1859, South America; probably Guiana.

**Genus 520. OCYANTHIAS** Jordan & Evermann.

*Ocyanthias* Jordan & Evermann, Fishes North and Middle America, 1227, 1896 (*martinicensis*).

**1642. Ocyanthias martinicensis** (Guichenot).

West Indies.

*Aylopon martinicensis* Guichenot, Anthiani, Ann. Linn. Soc., vol. x, 1868, Martinique.

**Genus 521. GRAMMA** Poey.

*Gramma* Poey, Synopsis, 296, 1868 (*loreto*).

**1643. Gramma loreto** Poey.

Matanzas, Cuba; only the type known.

*Gramma loreto* Poey, Synopsis, 296, 1868, Matanzas, Cuba.

**Genus 522. RYPTICUS** Cuvier. *Soapfishes*.

*Rypticus* Cuvier, Règne Animal, ed. 2, vol. ii, 144, 1829 (*saponaceus*).

**1644. Rypticus xanti** Gill.

Pacific Coast of Mexico, from Cape San Lucas to Colima and Mazatlan.

*Rhypticus xanti* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 250, Cape San Lucas.

**1645. Rypticus bicolor** (Valenciennes).

Galapagos Archipelago.

*Smeoticus bicolor* Valenciennes, Voyage de la Vénus, Poissons, 307, pl. 2, fig. 2, 1855, Galapagos Archipelago.

**1646. Rypticus saponaceus** (Bloch & Schneider). *Soapfish; Jabon; Jaboncillo*.

West Indies; Pensacola to west Africa and Brazil.

*Anthias saponaceus* Bloch & Schneider, Syst. Ichth., 310, 1801, Havana.

**1647. Rypticus arenatus** Cuvier & Valenciennes.

West Indies and coast of Brazil; recorded from Jamaica, Trinity, Barbados, and St. Thomas.

*Rypticus arenatus* Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 65, pl. 45, 1829, Brazil.

**1648. Rypticus coriaceus** (Cope). *Black Soapfish*.

West Indies; recorded from St. Martins and Jamaica.

*Eleutheractis coriaceus* Cope, Trans. Amer. Philos. Soc. 1870, 487, St. Martins.

Subgenus **PROMICROPTERUS** GILL.

*Promicropterus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 53 (*maculatus*).

1649. *Rypticus bistrispinus* (Mitchill).

South Atlantic Coast of United States; frequent off Charleston, Pensacola, and Key West; occasional as far north as Newport, Rhode Island.

*Bodianus bistrispinosus* Mitchill, Am. Monthly Magazine and Crit. Review, February, 1818, 247, Straits of Bahama.

1650. *Rypticus nigripinnis* Gill.

Pacific Coast of tropical America, Cape San Lucas to Panama.

*Rypticus nigripinnis* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 53, Panama.

Family **CXLIX. LOBOTIDÆ. The Triple-tails.**

Genus 523. **LOBOTES** Cuvier.

*Lobotes* Cuvier, Règne Animal, ed. 2, II, 177, 1829 (*erats* = *surinamensis*).

1651. *Lobotes surinamensis* (Bloch). *Flasher; Triple-tail; Dermour.*

Atlantic Coast from Cape Cod to Surinam; Mediterranean.

*Holocentrus surinamensis* Bloch, Ichth., pl. 243, 1790, Surinam.

1652. *Lobotes paciflous* Gilbert.

Known only from Panama.

*Lobotes paciflous* Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

Family **CL. PRIACANTHIDÆ. Catalufa.**

Genus 524. **PRIACANTHUS** Cuvier.

*Priacanthus* Cuvier, Règne Animal, ed. 1, 281, 1817 (*macrophthalmus*).

1653. *Priacanthus arenatus* Cuvier & Valenciennes. *Catalufa.*

West Indies, south to Brazil; occasionally northward in the Gulf Stream to Newport and Woods Hole.

*Priacanthus arenatus* Cuvier & Valenciennes, Hist. Nat. Poiss., III, 101, 1829, Brazil.

1654. *Priacanthus cruentatus* (Lacépède). *Big Eye; Catalufa.*

West Indies to St. Helena and the Canaries.

*Labrus cruentatus* Lacépède, Hist. Nat. Poiss., III, 522, 1800, Martinique; from a copy by Aubriet of a plate made by Plumier at Martinique.

Genus 525. **PSEUDOPRIACANTHUS** Bleeker.

*Pseudopriacanthus* Bleeker, Versl. Ak. Wet. Amsterd. (2), III, 241, 1869 (*niphonius*).

1655. *Pseudopriacanthus serrula* (Gilbert).

Pacific Coast of Colombia.

*Priacanthus serrula* Gilbert, Proc. U. S. Nat. Mus. 1890, 450, west coast of Colombia, at Albatross Station 2797.

1656. *Pseudopriacanthus altus* (Gill).

West Indies, north to Pensacola and Charleston.

*Priacanthus altus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 132, Narragansett Bay.

Family **CLI. LUTIANIDÆ. The Snappers.**

Genus 526. **HOPLOPAGRUS** Gill.

*Hoplopagrus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 253 (*guntheri*).

1657. *Hoplopagrus guntheri* Gill. *Pargo.*

Pacific Coast of tropical America, from Guaymas to Panama.

*Hoplopagrus guntheri* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 253, Cape San Lucas, Lower California.

Abundant. Beaufort N.C.

Gen Verrucata.

*Pracanthus caelestis* Penn.

*Pencil-like*

(Pres. of 1 layer, round, edge rough, a little depth, the  
edge rougher, and a little depth, the  
inner surface smooth.)



**Genus 527. EVOPLITES Gill.**

*Evoplites* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 236 (*pomacanthus* = young of *kasmira*).

**1658. *Evoplites viridis* (Valenciennes).**

Rocky islands of the eastern Pacific; known from Galapagos, Tres Marias, and Revillagigedo islands.

*Diacope viridis* Valenciennes, Voyage de la Vénus, 303, pl. 1, fig. 2 (very bad), 1845, Galapagos Islands.

**Genus 528. NEOMÆNIS Girard. Snappers.**

*Neomænis* Girard, U. S. Mex. Boun. Sur., Zool., 18, 1859 (*emarginatus* = *griseus*).

**Subgenus NEOMÆNIS Girard.****1659. *Neomænis jordani* Gilbert.**

Panama.

*Neomænis jordani* Gilbert, Fishes Panama, Proc. Cal. Ac. Sci. 1896, Panama.

**1660. *Neomænis novemfasciatus* (Gill). *Pargo Prieto*; *Pargo Mareño*; *Pargo Negro*.**

Pacific Coast of tropical America; Cape San Lucas; Guaymas; Mazatlan; Punta Arenas; San Blas; Panama.

*Lutjanus novemfasciatus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 251, Cape San Lucas, Lower California.

**1661. *Neomænis cyanopterus* (Cuvier & Valenciennes). *Cubera*.**

West Indies to Brazil.

*Mesoprion cyanopterus* Cuv. & Val., Hist. Nat. Poiss., II, 472, 1828, Brazil.

**1662. *Neomænis griseus* (Linnæus). *Gray Snapper*; *Mangrove Snapper*; *Caballerote*; *Lawyer*.**

West Indies; ranging from New Jersey to Brazil.

*Labrus griseus* Linnæus, Syst. Nat., ed. x, 283, 1758; after Catesby.

**1663. *Neomænis jocu* (Bloch & Schneider). *Dog Snapper*; *Jocú*.**

West Indies, north to Florida Keys, south to Bahia.

*Anthias jocu* Bloch & Schneider, Syst. Ichth., 310, 1801, Cuba; after Parra.

**1664. *Neomænis apoda* (Walbaum). *Schoolmaster*; *Caji*.**

West Indies, north to Key West, south to Bahia.

? *Perca apoda* Walbaum, Artedi Piscium, 351, 1792; based on the "Schoolmaster" of Catesby.

**1665. *Neomænis argentiventris* (Peters). *Pargo Amarillo*.**

Pacific Coast of tropical America.

*Mesoprion argentiventris* Peters, Berlin. Monatsber. 1869, 704, Mazatlan.

**1666. *Neomænis lutjanoides* (Poey).**

Cuba.

*Ocyurus lutjanoides* Poey, Ann. Lyc. Nat. Hist., IX, 1871, 319, Cuba.

**1667. *Neomænis buccanella* (Cuvier & Valenciennes). *Sesi de lo Alto*; *Oreille Noire*; *Boucanelle*; *Blackfin Snapper*.**

West Indies; Havana.

*Mesoprion buccanella* Cuvier & Valenciennes, Hist. Nat. Poiss., II, 455, 1828, Martinique.

**1668. *Neomænis vivanus* (Cuvier & Valenciennes). *Pargo de lo Alto*; *Silk Snapper*.**

West Indies; Havana.

*Mesoprion vivanus* Cuv. & Val., Hist. Nat. Poiss., II, 454, 1828, Martinique.

**1669. *Neomænis aya* (Bloch). *Red Snapper*; *Pargo Colorado*; *Pargo Guachinango*; *Acara Aya*.**

Long Island to Brazil; Gulf of Mexico, and about Yucatan.

*Bodianus aya* Bloch, Ichthyol., pl. 227, 1790, Brazil; after Maregrave.

**1670. *Neomænis analis* (Cuvier & Valenciennes). *Mutton-fish*; *Pargo*; *Pargo Criollo*.**

West Indies; Pensacola to Brazil.

*Mesoprion analis* Cuv. & Val., Hist. Nat. Poiss., II, 452, 1828, San Domingo.



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## 1671. *Neomænis colorado* (Jordan & Gilbert). *Pargo Colorado*.

Pacific Coast of Mexico, Guaymas to Panama.

*Lutjanus colorado* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 338, 351, 355, Mazatlan, Mexico.

## 1672. *Neomænis brachypterus* (Cope).

Bahama Islands.

*Lutjanus brachypterus* Cope, Trans. Amer. Philos. Soc. 1871, 470, New Providence, Bahama Islands.

## 1673. *Neomænis guttatus* (Steindachner). *Flamenco*.

Pacific Coast of Mexico, from Guaymas to Panama.

*Mesoprion guttatus* Steindachner, Ichthyol. Notizen, ix, 18, pl. 8, 1868, Mazatlan, Mexico.

## 1674. *Neomænis synagris* (Linnaeus). *Lane Snapper*; *Blajetba*; *Red-tail Snapper*.

West Indies; Florida Keys to Colon and Brazil.

*Sparus synagris* Linnaeus, Syst. Nat., ed. x, 280, 1758, Carolina; after Catesby.

## 1675. *Neomænis ambiguus* (Poey).

Cuba.

*Mesoprion ambiguus* Poey, Mem., ii, 152, pl. 12, fig. 4, pl. 13, fig. 8, 1869, Cuba.

## 1676. *Neomænis mahogoni* (Cuvier & Valenciennes). *Ojanco*; *Mahogany Snapper*.

West Indies; Havana.

*Mesoprion mahogoni* Cuvier & Valenciennes, Hist. Nat. Poiss., ii, 447, 1828, Martinique.

Subgenus **RAIZERO** Jordan & Fesler.

*Raizero* Jordan & Fesler, Rept. U. S. Fish Com. 1889 (1893), 438 (*aratus*).

## 1677. *Neomænis aratus* (Günther). *Pargo de Raizero*.

Pacific Coast of tropical America.

*Mesoprion aratus* Günther, Proc. Zool. Soc. Lond. 1864, 145, Panama; Chiapas.

Genus 529. **RABIRUBIA** Jordan & Fesler.

*Rabirubia* Jordan & Fesler, Rept. U. S. Fish Com. 1889 (1893), 433 (*inermis*).

## 1678. *Rabirubia inermis* (Peters).

Pacific Coast of America from Mazatlan to Panama.

*Mesoprion inermis* Peters, Berliner Monatsber. 1869, 705, Mazatlan, Mexico.

Genus 530. **OCYURUS** Gill. *Rabirubias*.

*Ocyurus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 236 (*chrysurus*).

## 1679. *Ocyurus chrysurus* (Bloch). *Yellow-tail*; *Rabirubia*.

West Indies, southern Florida to Brazil.

*Sparus chrysurus* Bloch, Ichthyol., pl. 262, 1790, Brazil; after Marcgrave.

Genus 531. **RHOMBOPLITES** Gill.

*Rhomboplites* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 237 (*aurorubens*).

## 1680. *Rhomboplites aurorubens* (Cuvier & Valenciennes). *Cagon de lo Alto*.

West Indies, north to Charleston, south to Rio Janeiro.

*Centropomus aurorubens* Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 45, 1829, Brazil, Martinique, and San Domingo.

Genus 532. **APSILUS** Cuvier & Valenciennes. *Arnillos*.

*Apsilus* Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 548, 1830 (*fuscus*, an East Indian species).

Subgenus **TROPIDINIUS** Gill.

*Tropidinius* Gill, in Poey, Synopsis, 296, 1868 (*arnillo* = *dentatus*).

## 1681. *Apsilus dentatus* Guichenot. *Arnillo*.

West Indies; Havana.

*Apsilus dentatus* Guichenot, in Ramon de la Sagra, Hist. Cuba: Poiss., 29, pl. 1, fig. 2, 1845, Havana.



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Genus 533. **APRION** Cuvier & Valenciennes. *Vorazes*.

*Aprion* Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 543, 1830 (*irrescens*).

Subgenus **PLATYNIUS** Gill.

*Platynius* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 237 (*rorax* = *macrophthalmus*).

1682. **Aprion macrophthalmus** (Müller & Troschel). *Voraz*.

West Indies; Havana.

*Centropristis macrophthalmus* Müller & Troschel, in Schomburgk, Hist. Barbados, 666, 1848, Barbados.

Genus 534. **ETELIS** Cuvier & Valenciennes.

*Etelis* Cuvier & Valenciennes, Hist. Nat. Poiss., II, 127, 1828 (*carbunculus*, a Japanese species).

1683. **Etelis oculatus** (Cuvier & Valenciennes). *Cachucho*.

West Indies to Madeira.

*Serranus oculatus* Cuvier & Valenciennes, Hist. Nat. Poiss., II, 266, 1828, Martinique.

1684. **Etelis aquilonaris** (Goode & Bean).

Gulf of Mexico in deep water.

*Anthias aquilonaris* Goode & Bean, Oceanic Ichthyology, 238, 1896, Gulf of Mexico, at Albatross Station 2402, 28° 36' N., 85° 33' 30" W., in 111 fathoms.

Genus 535. **VERILUS** Poey.

*Verilus* Poey, Memorias, II, 125, 1860 (*sordidus*).

1685. **Verilus sordidus** Poey. *Escolar Chino*.

West Indies.

*Verilus sordidus* Poey, Memorias, II, 125, pl. 12, fig. 6, 1860, Cuba.

Genus 536. **XENOCYS** Jordan & Bollman.

*Xenocys* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 160 (*jessiae*).

1686. **Xenocys jessiae** Jordan & Bollman.

Galapagos Islands.

*Xenocys jessiae* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 160, Charles Island, Galapagos Archipelago.

Genus 537. **XENISTIUS** Jordan & Gilbert.

*Xenistius* Jordan & Gilbert, Synopsis, 920, 1883 (*californiensis*).

1687. **Xenistius californiensis** (Steindachner).

Pacific Coast of America, from San Diego southward to Guaymas.

*Xenichthys californiensis* Steindachner, Ichth. Beitr., III, 3, 1875, San Diego.

Genus 538. **XENICHTHYS** Gill.

*Xenichthys* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 82 (*xanti*).

1688. **Xenichthys agassizii** Steindachner.

Galapagos Islands.

*Xenichthys agassizii* Steindachner, Ichth. Beitr., III, 6, 1875, Galapagos Islands.

1689. **Xenichthys xanti** Gill.

Pacific Coast of tropical America, from Cape San Lucas to Panama.

*Xenichthys xanti* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 82, Cape San Lucas.

Genus 539. **NEMIPTERUS** Swainson.

*Nemipterus* Swainson, Nat. Hist. Fishes, etc., II, 223, 1839 (*filamentosus*).

1690. **Nemipterus macronemus** (Günther).

Surinam.

*Synagris macronemus* Günther, Cat., I, 380, 1859, Surinam; after Cuvier.

## Family CLII. HÆMULIDÆ. The Grunters.

Genus 540. HÆMULON Cuvier. Roncos or Grunts.

*Hæmulon* Cuvier, Règne Animal, ed. 2, vol. 2, 1829 (*elegans*, etc., restricted later to *elegans* = *sciurus*).

1691. *Hæmulon sexfasciatum* Gill. *Mojarra Almagra*.

Pacific Coast of tropical America, Guaymas to Panama.

*Hæmulon sexfasciatus* Gill, Proc. Ac. Nat. Sci. Phila. 1882, 254, Cape San Lucas.

1692. *Hæmulon album* Cuvier & Valenciennes. *Margate-fish*; *Jallas*; *Margate Grunt*.

West Indies; Florida Keys to Brazil.

*Hæmulon album* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 241, 1830, St. Thomas.

1693. *Hæmulon macrostoma* Günther. *Gray Grunt*; *Yellow-tail*.

West Indies, north to Florida Keys.

*Hæmulon macrostoma* Günther, Cat., i, 308, 1859, Jamaica.

1694. *Hæmulon bonariense* Cuvier & Valenciennes. *Black Grunt*; *Ronco Prieta*.

West Indies, south to Buenos Ayres.

*Hæmulon bonariense* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 254, 1830, Buenos Ayres.

1695. *Hæmulon parra* (Desmarest). *Sailor's Choice*; *Ronco Blanco*; *Ronco Prieta*; *Bastard Margaret*.

West Indies; southern Florida to Brazil; very common at Key West and Havana.

*Diabasis parra* Desmarest, Prem. Décade Ichth., 30, pl. 2, fig. 2, 1823, Havana.

1696. *Hæmulon souderi* Gill. *Mojarra Prieta*.

Pacific Coast of tropical America, Guaymas to Panama.

*Hæmulon souderi* Gill, Proc. Ac. Nat. Sci. Phila. 1882, 253, Cape San Lucas.

1697. *Hæmulon carbonarium* Poey. *Ronco Carbonero*; *Cæsar Grunt*.

West Indies and the Bermudas, south to Brazil; Havana.

*Hæmulon carbonarium* Poey, Memorias, ii, 176, 1860, Cuba.

1698. *Hæmulon steindachneri* (Jordan & Gilbert). *Roncador Raiado*.

Both coasts of tropical America; Guaymas to Panama; St. Lucia to Rio Janeiro.

*Diabasis steindachneri* Jordan & Gilbert, Bull. U. S. Fish Com. 1881 (1882), 322, Panama and Mazatlan.

1699. *Hæmulon melanurum* (Linnæus). *Jeniguana*; *Cæsar Grunt*.

West Indies; Havana and southward.

*Perca melanura* Linnæus, Syst. Nat., ed. x, 292, 1758, and ed. xii, 486, 1766, Bahamas; based on Catesby.

1700. *Hæmulon sciurus* (Shaw). *Yellow Grunt*; *Ronco Amarillo*; *Humpback Grunt*; *Boar Grunt*.

West Indies; Florida Keys to Brazil.

*Sparus sciurus* Shaw, General Zoology, iv, pl. 64, 1803, Antilles; based on the description and figure of Bloch.

1701. *Hæmulon plumieri* (Lacépède). *Common Grunt*; *Ronco Ronco*; *Ronco Arard*.

West Indies; abundant from Cape Hatteras to Rio Janeiro.

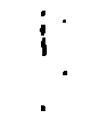
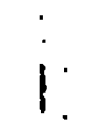
*Labrus plumieri* Lacépède, Hist. Nat. Poiss., iii, 480, pl. 2, fig. 2, 1802, Martinique; on a copy of a drawing by Plumier, identified with this species by Cuvier.

1702. *Hæmulon flavolineatum* (Desmarest). *French Grunt*; *Open-mouthed Grunt*; *Ronco Condado*.

West Indies; Florida Keys and Bermudas to Brazil.

*Diabasis flavolineatus* Desmarest, Prem. Décade Ichth., 35, pl. 2, fig. 1, 1823, Cuba.





**Genus 541. BRACHYGENYS** Scudder.*Brachygenys* Scudder, in Poey, Synopsis, 310, 1868 (*taeniatum*).**1703. Brachygenys chrysargyreus** (Günther).

Key West, Havana, and Trinidad.

*Hæmulon chrysargyreum* Günther, Cat., 1, 314, 1859, Trinidad.**Genus 542. BATHYSTOMA** Scudder. *Tom-tates*.*Bathystoma* Scudder, in Putnam, Bull. Mus. Comp. Zool., 1, 12, 1863 (*jeniguano*, etc.; no definition).**1704. Bathystoma rimator** (Jordan & Swain). *Tom-tate; Red-mouth Grunt; Caesar*.

West Indies; Cape Hatteras to Trinidad.

*Hæmulon rimator* Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 308, Charleston; Key West; Pensacola.**1705. Bathystoma aurolineatum** (Cuvier & Valenciennes). *Jeniguano*.

West Indies; Florida Keys to Brazil.

*Hæmulon aurolineatum* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 237, 1830, Brazil; San Domingo.**1706. Bathystoma striatum** (Linnæus). *White Grunt*.

West Indies; Bermudas to Brazil.

*Perca striata* Linnæus, Syst. Nat., ed. x, 233, 1758, North America.**Genus 543. LYTHRULON** Jordan & Swain.*Lythrulon* Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 287 (*flaviguttatum*).**1707. Lythrulon flaviguttatum** (Gill).

Pacific Coast of tropical America, Guaymas to Panama.

*Hæmulon flaviguttatus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 254, Cape San Lucas, Lower California.**1708. Lythrulon opalescens** Jordan & Starks.

Mazatlan, Mexico.

*Lythrulon opalescens* Jordan & Starks, in Jordan, Proc. Cal. Ac. Sci. 1895, 459, pl. 40, Mazatlan, Mexico.**Genus 544. ORTHOSTÆCHUS** Gill. *Striped Grunts*.*Orthostæchus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 255 (*maculicauda*).**1709. Orthostæchus maculicauda** Gill. *Roncador Raiado*.

Pacific Coast of tropical America, Guaymas to Panama.

*Orthostæchus maculicauda* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 225, Cape San Lucas, Lower California.**Genus 545. ANISOTREMUS** Gill.*Anisotremus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 107 (*virginicus*).**Subgenus PARACONODON** Bleeker.*Paraconodon* Bleeker, Archiv Neerl., xi, 272, 1876 (*pacifloi*).**1710. Anisotremus pacifloi** (Günther).

Pacific Coast of tropical America.

*Conodon pacifloi* Günther, Proc. Zool. Soc. Lond. 1864, 147, Chiapas.**1711. Anisotremus cæsius** (Jordan & Gilbert).

Pacific Coast of Mexico; Mazatlan and Acapulco.

*Pomadasyx cæsius* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 383, Mazatlan.**1712. Anisotremus dovii** (Günther).

Pacific Coast of tropical America at Mazatlan and Panama.

*Pristipoma dovii* Günther, Proc. Zool. Soc. Lond. 1864, 23, Panama.**Subgenus ANISOTREMUS** GILL.**1713. Anisotremus surinamensis** (Bloch). *Pompon*.

Tropical America, from Cuba to Brazil.

*Lutjanus surinamensis* Bloch, Ichth., pl. 253, 1791, Surinam.



1714. *Anisotremus interruptus* (Gill). *Mejarren*.  
Pacific Coast, Magdalena Bay to Panama and the Galapagos.  
*Genytremus interruptus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 256, Cape San Lucas, Lower California.
1715. *Anisotremus bicolor* (Castelnau). *Maria Prieta*.  
Coast of Brazil; perhaps Cuba.  
*Pristipoma bicolor* Castelnau, Anim. Nouv. ou Rares Amér. du Sud, 8, pl. 2, fig. 2, 1850, Bahia, Brazil.
1716. *Anisotremus scapularis* (Tschudi).  
Coast of Peru; said to have been once taken at Mazatlan.  
*Pristipoma scapulare* Tschudi, Fauna Peruana, 12, 1844, Huacho, Peru.
1717. *Anisotremus davidsoni* (Steindachner). *Serge Reade*.  
Coast of southern California.  
*Pristipoma davidsoni* Steindachner, Ichth. Beitr., III, 6, 1875, San Diego.
1718. *Anisotremus spleniatum* (Poey).  
Havana.  
*Pristipoma spleniatum* Poey, Memorias, II, 187, 1800, Havana.
1719. *Anisotremus tæniatus* Gill. *Catalina*.  
Pacific Coast of tropical America; Magdalena Bay to Panama.  
*Anisotremus tæniatus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 107, Panama.
1720. *Anisotremus virginicus* (Linnaeus). *Catalina*; *Perkfish*.  
West Indies; Florida Keys to Brazil.  
*Sparus virginicus* Linnaeus, Syst. Nat., ed. x, 281, 1758, South America.
1721. *Anisotremus serrula* (Cuvier & Valenciennes). *Toto-de-Rocher*; *Petite Scie*.  
Martinique.  
*Pristipoma serrula* Cuv. & Val., Hist. Nat. Poiss., v, 272, 1830, Martinique.
- Genus 546. *CONODON* Cuvier & Valenciennes.  
*Conodon* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 156, 1830 (*antillanus* = *nobilis*).
1722. *Conodon nobilis* (Linnaeus).  
West Indies; coast of Texas to Brazil.  
*Perca nobilis* Linnaeus, Syst. Nat., ed. x, 191, 1758, North America.
1723. *Conodon serrifer* Jordan & Gilbert.  
Lower California.  
*Conodon serrifer* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 351. Boca Soledad, Lower California.
- Genus 547. *BRACHYDEUTERUS* Gill. *Burritos*.  
*Brachydeuterus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 17 (*auritus*; an African species).
1724. *Brachydeuterus nitidus* (Steindachner).  
Pacific Coast of tropical America; Panama, Mazatlan, and the Gulf of California.  
*Pristipoma nitidum* Steindachner, Ichth. Notizen, VIII, 5, 1869, Mazatlan.
1725. *Brachydeuterus leuciscus* (Günther). *Burrito*.  
Pacific Coast of tropical America; not rare at Mazatlan and Panama, south to northern Peru.  
*Pristipoma leuciscus* Günther, Proc. Zool. Soc. Lond. 1864, 147, San Jose de Nicaragua; Chiapas.
1726. *Brachydeuterus axillaris* (Steindachner).  
Pacific Coast of Mexico; Mazatlan and Guaymas.  
*Pristipoma axillare* Steindachner, Ichth. Notizen, VIII, 7, 1869, Mazatlan.
1727. *Brachydeuterus corvinæformis* (Steindachner).  
West Indies to Brazil; Jamaica.  
*Hamulon corvinæformis* Steindachner, Ichth. Notizen, VII, 16, 1868, Santos, Brazil.

**Genus 548. POMADASIS Lacépède. Burros.***Pomadasis* Lacépède, Hist. Nat. Poiss., iv, 516, 1803 (*argenteus*).**Subgenus RHENCUS Jordan & Evermann.***Rhencus* Jordan & Evermann, Fishes North and Middle America, 1896 (*panamensis*).**1728. Pomadasis panamensis (Steindachner).**

Pacific Coast of tropical America; Panama and Mazatlan.

*Pristipoma panamensis* Steindachner, Ichth. Beitr., III, 8, 1875, Panama.**Subgenus PRISTIPOMA Cuvier.***Pristipoma* Cuvier, Règne Animal, ed. i, 279, 1817 (*hasta*, etc.).**1729. Pomadasis humilis (Kner & Steindachner).**

Pacific Coast of Panama; Rio Bayano.

*Pristipoma humile* Kner & Steindachner, Sitzgb. Akad. Wiss. (Münch.) 1863, 222, Rio Bayano, near Panama.**1730. Pomadasis productus (Poey).**

Cuba.

*Pristipoma productum* Poey, Memorias, II, 186, 1860, Havana.**1731. Pomadasis macracanthus (Günther). Burro.**

Pacific Coast of tropical America; Panama; Mazatlan; Chiapas, and Punta Arenas.

*Pristipoma macracanthum* Günther, Proc. Zool. Soc. Lond. 1864. 146, Chiapas.**1732. Pomadasis andrei (Sauvage).**

Rio Guayas, Ecuador.

*Pristipoma andrei* Sauvage, Bull. Sci. Philom. Paris, 7th series, III, 204, 1879, Rio Guayas, Ecuador.✓ **Subgenus RHONCISCUS Jordan & Evermann.***Rhonciscus* Jordan & Evermann, Fishes North and Middle America, 1896 (*crocro*).**1733. Pomadasis crocro (Cuvier & Valenciennes).**

West Indies; Cuba to Brazil.

*Pristipoma crocro* Cuv. & Val., Hist. Nat. Poiss., v, 264, 1830, Martinique.**1734. Pomadasis branicki (Steindachner). Burrito.**

Pacific Coast of tropical America; Mazatlan to Peru.

*Pristipoma branicki* Steindachner, Denkschr. kaiserl. Akad. Wiss. Wien, XII, 28, 1879, Tumbes, Peru.**1735. Pomadasis ramosus (Poey).**

West Indies, south to Brazil.

*Pristipoma ramosum* Poey, Memorias, II, 186, 1860, Havana.**Genus 549. ORTHOPRISTIS Girard. Pigfishes.***Orthopristis* Girard, U. S. Mex. Bound. Survey, Zool., 15, 1859 (*duplex* = *chrysopterus*).**1736. Orthopristis forbesi Jordan & Starks.**

Albemarle Island, one of the Galapagos Archipelago.

*Orthopristis forbesi* Jordan & Starks, in Jordan & Evermann, Fishes North and Middle America, 1896, Albemarle Island.**1737. Orthopristis reddingi Jordan & Richardson.**

La Paz, Lower California.

*Orthopristis reddingi* Jordan & Richardson, in Jordan, Proc. Cal. Ac. Sci. 1895, 509, pl. 41, La Paz, Lower California.

1738. *Orthopristis chalcus* (Günther).

Pacific Coast of tropical America, from Cape San Lucas to the Galapagos.  
*Pristipoma chalcum* Günther, Proc. Zool. Soc. Lond. 1864, 146, Panama.

1739. *Orthopristis chrysopterus* (Linnaeus). *Pigfish*; *Sailer's Choice*; *Hogfish*.

South Atlantic and Gulf coasts of the United States.

*Percu chrysoptera* Linnaeus, Syst. Nat., ed. XII, 486, 1766, Charleston, S. C.

1740. *Orthopristis poeyi* Scudder.

West Indies; Havana.

*Orthopristis poeyi* Scudder, in Poey, Synopsis, 312, 1868, Havana.

1741. *Orthopristis cantharinus* (Jenyns).

Galapagos Islands.

*Pristipoma cantharinum* Jenyns, Voyage Beagle, Fishes, 49, 1842, Galapagos Islands.

Subgenus EVAPRISTIS Jordan & Evermann.

✓ *Evapristis* Jordan & Evermann, Fishes North and Middle America, 1896 (*lethopristis*).

1742. *Orthopristis lethopristis* Jordan & Fesler.

Galapagos Archipelago.

*Orthopristis lethopristis* Jordan & Fesler, Proc. Ac. Nat. Sci. Phila. 1889, 36, Galapagos Islands.

Genus 550. *ISACIELLA* Jordan & Fesler.

*Isaciella* Jordan & Fesler, Review of the Sparoid Fishes of America and Europe, 497, 1893 (*brevipinnis*).

1743. *Isaciella brevipinnis* (Steindachner).

Pacific Coast of Mexico.

*Pristipoma brevipinna* Steindachner, Ichth. Notizen, VIII, 10, 1869, Mazatlan.

Genus 551. *MICROLEPIDOTUS* Gill.

*Microlepidotus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 256 (*inornatus*).

1744. *Microlepidotus inornatus* Gill. *Japaton*.

Gulf of California; La Paz and Mazatlan.

*Microlepidotus inornatus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 256, Cape San Lucas, Lower California.

Genus 552. *GENYATREMUS* Gill.

*Genyatremus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 256 (*carifrons*).

1745. *Genyatremus luteus* (Bloch).

Lesser Antilles to Brazil.

*Lutianus luteus* Bloch, Ichthyologia, pl. 247, 1793, Martinique; on a drawing by Plumier.

Family CLIII. SPARIDÆ. The Porgies.

Genus 553. *OTRYNTER* Jordan & Evermann. *Deep-water Porgies*.

*Otrynter* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*caprinus*).

1746. *Otrynter caprinus* (Bean).

Deep waters off the west coast of Florida.

*Stenotomus caprinus* Bean, Proc. U. S. Nat. Mus. 1882, 426, Snapper Banks off Pensacola, Florida.

Genus 554. *STENOTOMUS* Gill.

*Stenotomus* Gill, Canadian Nat., 1865, 266 (*argyrops*).

1747. *Stenotomus chrysops* (Linnaeus). *Common Scup*; *Porgy*; *Scuppaug*.

Atlantic Coast of United States, from Cape Cod to South Carolina.

*Sparus chrysops* Linnaeus, Syst. Nat., ed. XII, 471, 1766, Charleston, South Carolina.

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- 1748. *Stenotomus aculeatus* (Cuvier & Valenciennes). *Southern Porgy*.**  
 South Atlantic and Gulf coasts of United States, Cape Hatteras to Texas.  
*Chrysophrys aculeata* Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 137, 1830,  
 Charleston, South Carolina.
- Genus 555. CALAMUS Swainson.**  
*Calamus* Swainson, Nat. Hist. Fishes, etc., ii, 222, 1839 (*calamus*).
- Subgenus CALAMUS Swainson.**
- 1749. *Calamus calamus* (Cuvier & Valenciennes). *Saucer-eye Porgy*; *Pes de Pluma*.**  
 West Indies, north to Florida Keys.  
*Pagellus calamus* Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 206, pl. 152,  
 1830, Martinique; San Domingo.
- 1750. *Calamus proridens* Jordan & Gilbert. *Little-head Porgy*; *Pes de Pluma*.**  
 West Indies, north to the Florida Keys.  
*Calamus proridens* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 150, Key  
 West, Florida.
- 1751. *Calamus pennatula* Guichenot.**  
 West Indies.  
*Calamus pennatula* Guichenot, Revision des Pagels, 116, 1850, Martinique.
- 1752. *Calamus bajonado* (Bloch & Schneider). *Jolt-head Porgy*; *Bajonado*.**  
 West Indies, north to Florida Keys.  
*Sparus bajonado* Bloch & Schneider, Syst. Ichth., 284, 1801; after Parra.  
 West Indies.
- Subgenus GRAMMATEUS Poey.**  
*Grammateus* Poey, Ann. Lyc. Nat. Hist. N. Y. 1872, 182 (*microps*).
- 1753. *Calamus brachysomus* (Lockington). *Mojarra Garabata*.**  
 Gulf of California and neighboring waters, locally abundant from Magda-  
 lena Bay to Mazatlan.  
*Sparus brachysomus* Lockington, Proc. U. S. Nat. Mus. 1880, 284, Magdalena  
 Bay, Lower California.
- 1754. *Calamus leucosteus* Jordan & Gilbert. *White-bone Porgy*.**  
 South Atlantic Coast of United States, known only from the markets of  
 Charleston, South Carolina.  
*Calamus leucosteus* Jordan & Gilbert, in Jordan, Cat. Fishes N. A., 91, 1885,  
 Charleston, South Carolina.
- 1755. *Calamus macrops* Poey.**  
 Cuba.  
*Calamus macrops* Poey, Ann. Lyc. Nat. Hist. N. Y. 1872, 181, fig. 3, Havana.
- 1756. *Calamus taurinus* (Jenyns).**  
 Galapagos Islands to Peru.  
*Chrysophrys taurina* Jenyns, Zool. Beagle, Fishes, 56, pl. 7, 12, 1842, Galapagos  
 Islands.
- 1757. *Calamus penna* (Cuvier & Valenciennes). *Little-mouth Porgy*; *Sheepshead Porgy*.**  
 Southern Florida to Brazil; known from Charlotte Harbor, Key West, Rio  
 Janeiro, St. Thomas, Havana, Camaru, and Rio Grande do Sul.  
*Pagellus penna* Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 209, 1830, Brazil.
- 1758. *Calamus arctifrons* Goode & Bean. *Grass Porgy*; *Shad Porgy*.**  
 Gulf of Mexico, from Pensacola to Key West.  
*Calamus arctifrons* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 425, Pensa-  
 cola, Florida.
- 1759. *Calamus medius* (Poey).**  
 West Indies; Havana.  
*Grammateus medius* Poey, Ann. Lyc. Nat. Hist. N. Y. 1872, 183, pl. 7, fig. 4,  
 Havana.

Genus 556. **PAGRUS** Cuvier.

*Pagrus* Cuvier, Règne Animal, ed. 1, 272, 1817 (*argenteus* = *pagrus*).

1760. **Pagrus pagrus** (Linnaeus). *Red Porgy; Besugo; Pargo Colorado.*

Southern Europe and South Atlantic and Gulf coasts of the United States, south to Uruguay.

*Sparus pagrus* Linnaeus, Syst. Nat., ed. x, 279, 1758, southern Europe.

Genus 557. **LAGODON** Holbrook. *Chopa Spina.*

*Lagodon* Holbrook, Ichth. South Carolina, 59, 1880 (*rhomboides*).

1761. **Lagodon rhomboides** (Linnaeus). *Pinfish; Bream; Sailor's Choice; Chopa Spina.*

Atlantic and Gulf coasts of United States; Cape Cod to Cuba.

*Sparus rhomboides* Linnaeus, Syst. Nat., ed. xii, 470, 1766, Charleston, S. C.

Genus 558. **ARCHOSARGUS** Gill. *Sheepsheads.*

*Archosargus* Gill, Canadian Nat. 1865, 266 (*probatoccephalus*).

Subgenus **SALEMA** Jordan & Evermann.

*Salema* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*unimaculatus*).

1762. **Archosargus unimaculatus** (Bloch). *Salema.*

West Indies, north to Key West, south to Rio Janeiro.

*Percs unimaculata* Bloch, Ichthyologia, pl. 308, 1792, Brazil; on a figure by Prince Maurice.

1763. **Archosargus pourtalesii** (Steindachner).

Galapagos Islands.

*Sargus pourtalesii* Steindachner, Fische Afrikas, 89, 1881, Galapagos Islands.

1764. **Archosargus tridens** (Poey).

Cuba.

*Sargus tridens* Poey, Enumeratio, 57, 1875, Cuba.

Subgenus **ARCHOSARGUS** Gill.

1765. **Archosargus probatocephalus** (Walbaum). *Sheepshead; Sargo Raisado.*

Atlantic and Gulf coasts of the United States; Cape Cod to Florida Keys and Texas.

*Sparus probatocephalus* Walbaum, Artedi Pisc., 295, 1792, New York; based on Schöpf.

1766. **Archosargus aries** (Cuvier & Valenciennes).

Honduras to Brazil; Rio Janeiro; Maracaibo; Belize.

*Sargus aries* Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 58, 1830, Rio Janeiro; Maracaibo.

Genus 559. **DIPODUS** Rafinesque.

*Diplodus* Rafinesque, Indice d'Ittiologia Siciliana, 54, 1810 (*annularis*).

1767. **Diplodus holbrookii** (Bean).

South Atlantic and Gulf coasts of the United States; Cape Hatteras to Cedar Keys.

*Sargus holbrookii* Bean, Forest and Stream, June 13, 1878, Charleston, S. C.

1768. **Diplodus argenteus** (Cuvier & Valenciennes). *Sargo.*

West Indies; Florida and the Bermudas, south to Argentina.

*Sargus argenteus* Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 60, 1830, Brazil.

1769. **Diplodus sargus** (Linnaeus). *Sargo.*

Coast of southern Europe; Bermudas.

*Sparus sargus* Linnaeus, Syst. Nat., ed. x, 278, 1758, Mediterranean.

Family CLIV. **MÆNIDÆ**. The Picarels.

Genus 560. **SPICARA** Rafinesque.

*Spicara* Rafinesque, Caratteri, etc., 51, 1810 (*fleriosa* = *smaris*).

1770. **Spicara martinica** (Cuvier & Valenciennes).

West Indies.

*Smariis martinicus* Cuv. & Val., Hist. Nat. Poiss., vi, 424, 1830, Martinique.

*Perca rhomboidalis* L. 25x





**Genus 561. EMMELICHTHYS Richardson.***Emmelichthys* Richardson, Voy. Erebus and Terror, Fishes, 47, 1846 (*nitidus*).**Subgenus INERMIA Poey.***Inermia* Poey, Memorias, II, 193, 1860 (*vittata*).**1771. Emmelichthys vittatus (Poey). Boga.**

Coasts of Cuba.

*Inermia vittata* Poey, Memorias, II, 193, 1860, Havana.**Family CLV. GERRIDÆ. The Mojarra.****Genus 562. EUCINOSTOMUS Baird & Girard. Mojarritas.***Eucinostomus* Baird & Girard, Ninth Smithson. Rept., 1855, 20 (*argenteus*).**1772. Eucinostomus dowi (Gill).**

Pacific coasts of tropical America; Galapagos Islands; Panama.

*Diapterus dowi* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 162, Panama.**1773. Eucinostomus pseudogula Poey.**

West Indies to Brazil; Bermudas; Cuba; St. Lucia; Bahia.

*Eucinostomus pseudogula* Poey, Enumeratio, 53, pl. I, 1875, Havana.**1774. Eucinostomus harengulus Goode & Bean.**

Atlantic Coast of tropical America; western Florida; Key West; Jamaica; San Domingo; Bahia.

*Eucinostomus harengulus* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 132, west Florida.**1775. Eucinostomus californiensis (Gill). Mojarra Cantiléna.**

Pacific Coast of Mexico; Guaymas and Cape San Lucas to Panama.

*Diapterus californiensis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 245, Cape San Lucas, Lower California.**1776. Eucinostomus gula (Cuvier & Valenciennes). Mojarra de Ley; Petite Gueule.**

Atlantic Coast of America from Carolina to Brazil, north to Long Island.

*Gerres gula* Cuv. & Val., Hist. Nat. Poiss., VI, 464, 1830, Martinique.**Genus 563. ULÆMA Jordan & Evermann.***Ulæma* Jordan & Evermann, Proc. Cal. Ac. Sci. 1895, 471 (*lefroyi*).**1777. Ulæma lefroyi (Goode).**

West Indies, on sandy shores north to Cedar Keys; Bermudas; Cuba; Key West.

*Diapterus lefroyi* Goode, Amer. Jour. Sci. Arts 1874, 123, Bermudas.**Genus 564. XYSTÆMA Jordan & Evermann. Mojarra Blanca.***Xystæma* Jordan & Evermann, Proc. Cal. Ac. Sci. 1895, 471 (*cinereus*).**1778. Xystæma cinereum (Walbaum). Mojarra de Casta; Mojarra Blanca; Broad Shad.**

Coasts of tropical America; West Indies, north to Florida; Havana; Jamaica; Martinique; Bahamas; Barbados; Florida Keys; Mazatlan; Rio Presidio; Guatemala; Panama; Chiapas.

*Mugil cinereus* Walbaum, Artedi Piscium, 228, 1792, Bahamas; after Catesby.**Genus 565. GERRES Cuvier. Mojarra.***Gerres* Cuvier, Règne Animal, ed. 2, II, 104, 1829 (*lineatus*, etc.).**Subgenus MOHARRA Poey.***Moharra* Poey, Enumeratio, 50, 1875 (*rhombea*).**1779. Gerres rhombeus Cuvier & Valenciennes.**

West Indies and Atlantic coast of tropical America; Jamaica; San Domingo; Martinique; Puerto Cabello; Havana; Aspinwall; Rio Magdalena; Santa Lucia; Bahia.

*Gerres rhombeus* Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 459, 1830, Martinique; San Domingo.

Subgenus *DIAPTERUS* Ranzani.*Diapterus* Ranzani, Nov. Comment. Bonon., v, 1841, 340 (*aureatus*).1780. *Gerres aureolus* Jordan & Gilbert.

Panama; only original type known.

*Gerres aureolus* Jordan & Gilbert, Bull. U. S. Fish Com., 1, 1881 (1882), 32<sup>a</sup>, Panama.1781. *Gerres peruvianus* Cuvier & Valenciennes. *Mojarra de las Alotas Amarillas*.

West coast of tropical America; Mazatlan; Salina Cruz; Chiapas; Panama; Peru.

*Gerres peruvianus* Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 467, 1830, Payta, northern Peru.1782. *Gerres olisthostoma* Goode & Bean. *Irish Pompano; Mutton-fish*.

West Indies, north to southern Florida.

*Gerres olisthostoma* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 423, Indian River, Florida.Subgenus *GERRES* Cuvier.1783. *Gerres brevimanus* Günther.

Pacific coast of tropical America; only original type known.

*Gerres brevimanus* Günther, Proc. Zool. Soc. Lond. 1864, 152, Chiapas.1784. *Gerres lineatus* (Humboldt). *Mojarra China*.

West coast of Mexico; Acapulco; Mazatlan; San Blas; Chiapas.

*Smaris lineatus* Humboldt, Observ. Zool., ii, 185, pl. 46, 1807-1834, Acapulco.1785. *Gerres brasiliensis* Cuvier & Valenciennes. *Potao*.

Cuba to Bahia.

*Gerres brasiliensis* Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 458, 1830, Brazil; Porto Rico.1786. *Gerres embryx* Jordan & Starks.

Coast of South Carolina.

*Gerres embryx* Jordan & Starks, in Jordan & Evermann, Fishes North and Middle America, 1896, South Carolina.1787. *Gerres plumieri* Cuvier & Valenciennes. *Mojarra*.

Atlantic coast of tropical America and West Indies; Havana; Porto Rico; San Domingo; Jamaica; Pernambuco; Bahia; Aspinwall; Guatemala.

*Gerres plumieri* Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 452, 1830, Antilles; Porto Rico.1788. *Gerres mexicanus* Steindachner.

Rio Teapa, Mexico.

*Gerres mexicanus* Steindachner, Ueber eine Neue Gerres-Art aus Mexico, Verh. K. K. Geo. Wien., xiii, 383, 1863, Rio Teapa, Mexico.Family CLVI. *KYPHOSIDÆ*. The Rudder-Fishes.Genus 566. *GIRELLA* Gray.*Girella* Gray, Illustrations of Indian Zoology, about 1840 (*punctata*).1789. *Girella nigricans* (Ayres). *California Bluefish*.

Coast of southern California, from Monterey to Cape San Lucas.

*Camarina nigricans* Ayres, Proc. Cal. Ac. Sci. 1861, 81, fig. 22, California.Genus 567. *DOYDIXODON* Valenciennes.*Doydixodon* Valenciennes, Voyage de la Vénus, v, 318, 1855 (*fremincillei*).1790. *Doydixodon freminvillei* Valenciennes.

Galapagos Islands and coast of Peru.

*Doydixodon freminvillei* Valenciennes, Voyage Vénus, 323, pl. 5, 1855, Galapagos Islands.





Genus 568. **HERMOSILLA** Jenkins & Evermann.*Hermosilla* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 144 (*azurea*).1791. *Hermosilla azurea* Jenkins & Evermann.

Gulf of California.

*Hermosilla azurea* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 144, Guaymas, Mexico.Genus 569. **KYPHOSUS** Lacépède.*Kyphosus* Lacépède, Hist. Nat. Poiss., III, 114, 1802 (*bigibbus* = *fuscus*).1792. *Kyphosus analogus* (Gill). *Salema*.

Pacific Coast of tropical America, Gulf of California to Panama.

*Pimelepterus analogus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 245, Cape San Lucas.1793. *Kyphosus incisor* (Cuvier & Valenciennes). *Chopa Amarilla*.

Cuba. &amp; Brazil.

*Pimelepterus incisor* Cuv. & Val., Hist. Nat. Poiss., VII, 266, 1831, Brazil.1794. *Kyphosus elegans* (Peters). *Chopa*.

Pacific Coast of tropical America, from Guaymas to Mazatlan.

*Pimelepterus elegans* Peters, Berlin. Monatsb., 707, 1869, Mazatlan, Mexico.1795. *Kyphosus sectatrix* (Linnæus). *Rudder-fish*; *Bermuda Chub*; *Chopa Blanca*.

West Indies, ranging from Cape Cod to Brazil, crossing the ocean to the Canary Islands; accidental in the Mediterranean; one taken at Palermo.

*Perca sectatrix* Linnæus, Syst. Nat., ed. XII, 486, 1766, "America."1796. *Kyphosus lutescens* (Jordan & Gilbert).

Revillagigedo Archipelago.

*Pimelepterus lutescens* Jordan & Gilbert, Proc. U. S. N. M. 1881, 229, Braithwaite Bay, Socorro Island.*= elegans var.*  
(flesh yellow) (flesh steel blue)Genus 570. **SECTATOR** Jordan & Fesler.*Sectator* Jordan & Fesler, Review Sparoid Fishes, 534, 1893 (*ocyurus*).1797. *Sectator ocyurus* (Jordan & Gilbert).

Panama.

*Pimelepterus ocyurus* Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 327, 328, Bay of Panama.Genus 571. **MEDIALUNA** Jordan & Fesler. *Medialunas*.*Medialuna* Jordan & Fesler, Review Sparoid Fishes, 536, 1893 (*californiensis*).1798. *Medialuna californiensis* (Steindachner). *Medialuna*; *Half-moon*.

Coast of southern California, from Point Conception southward to Cerros Island.

*Scorpius californiensis* Steindachner, Ichth. Beitr., III, 19, 1875, San Diego.Family CLVII. **SCLÆNIDÆ**. The Croakers.

## Subfamily OTOLITHINÆ.

Genus 572. **SERIPHUS** Ayres.*Seriphus* Ayres, Proc. Cal. Ac. Sci., II, 1861, 80 (*politus*).1799. *Seriphus politus* Ayres. *Queenfish*; *White Croaker*.

Coast of southern California, from Point Conception to Cerros Island; common on sandy shores.

*Seriphus politus* Ayres, Proc. Cal. Ac. Sci., II, 1861, 80, no locality given.Genus 573. **ISOPISTHUS** Gill.*Isopisthus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 18 (*parvipinnis*).1800. *Isopisthus remifer* Jordan & Gilbert.

Panama, on sandy shores, rather common.

*Isopisthus remifer* Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 320, Panama.

**1801. *Isopisthus parvipinnis* (Cuvier & Valenciennes).**

Coast of Brazil, north to Cayenne.

*Ancylodon parripinnis* Cuv. & Val., Hist. Nat. Poiss., v, 84, 1830, Cayenne.**Genus 574. CYNOSCION Gill. Weakfishes.***Cynoscion* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 18 (*regalis*).**Subgenus BUCCONE Jordan & Evermann.***Buccone* Jordan & Evermann, new subgenus (*prædatorius*).**1802. *Cynoscion prædatorius* (Jordan & Gilbert). *Becone*.**

Coast of Panama; scarce.

*Cestrens prædatorius* Jordan & Gilbert, in Jordan & Eigenmann, Review of the Scienidae, 363, 1889, Panama.**Subgenus CYNOSCION Gill.****1803. *Cynoscion acoupa* (Lacépède). *Acoupa*; *Toeres*.**

Atlantic Coast of South America, Brazil north to Venezuela; generally common.

*Cheilodipterus acoupa* Lacépède, Hist. Nat. Poiss., iii, 546, 1802, Cayenne.**1804. *Cynoscion squamipinnis* (Günther).**

Pacific Coast of tropical America; known from a few specimens taken at La Union and Panama.

*Otolithus squamipinnis* Günther, Fishes Cent. Am., 387 and 429, 1860, Panama.**1805. *Cynoscion othonopterus* Jordan & Gilbert.**

Gulf of California.

*Cynoscion othonopterus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 274, Punta San Felipe, Mexico.**1806. *Cynoscion obliquatus* (Valenciennes).**

Martinique.

*Otolithus obliquatus* Valenciennes, in Sauvage, Bull. Soc. Philom. Paris, iii, 209, 1879, Martinique.**1807. *Cynoscion jamaicensis* (Vaillant & Bocourt).**

Jamaica.

*Otolithus jamaicensis* Vaillant & Bocourt, Miss. Sci. au Mexique, Poissons, 156, 1874, Jamaica.**1808. *Cynoscion nothus* (Holbrook). *Bastard Weakfish*.**

South Atlantic and Gulf coasts of United States; rather rare at Charleston.

*Otolithus nothus* Holbrook, Ichth. S. C., 134, pl. 19, fig. 1, 1860, South Carolina.**1809. *Cynoscion regalis* (Bloch & Schneider). *Common Weakfish*; *Squeteague*; "Sea Trout."**

Atlantic and Gulf coasts of United States, Cape Cod southward to Mobile.

*Johnius regalis* Bloch & Schneider, Syst. Ichth., 75, 1801, New York.**1810. *Cynoscion thalassinus* (Holbrook).**

Pensacola; Pass Christian, Mississippi; Hampton Roads, Virginia.

*Otolithus thalassinus* Holbrook, Ichth. South Carolina, 132, pl. 18, fig. 2, 1859, Charleston, South Carolina.**1811. *Cynoscion reticulatus* (Günther). *Corrina*.**

Pacific Coast of tropical America, Mazatlan to Panama.

*Otolithus reticulatus* Günther, Proc. Zool. Soc. Lond. 1864, 149, San Jose de Guatemala; Chirapam.**1812. *Cynoscion nebulosus* (Cuvier & Valenciennes). *Spotted Weakfish*; *Spotted Squeteague*; *Spotted Sea Trout*.**

South Atlantic and Gulf Coast of the United States; New York to Texas; everywhere common on our southern coast; rare north of Virginia.

*Otolithus nebulosus* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 79, 1830, locality unknown.**1813. *Cynoscion parvipinnis* Ayres. *California "Bluefish."***

Coasts of Lower California; Santa Barbara Islands to Guaymas; common along the coasts of southern California, as far north as San Pedro.

*Cynoscion parripinnis* Ayres, Proc. Cal. Ac. Sci. 1861, 156, coast of Lower California.







- 1814. *Cynoscion xanthulus* Jordan & Gilbert.** *Corrina de las Aletas; Amarillas.*  
Pacific Coast of Mexico; not rare about Mazatlan.  
*Cynoscion xanthulum* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 460,  
Mazatlan.

- 1815. *Cynoscion albus* (Günther).**  
Pacific Coast of tropical America; not rare at Panama.  
*Otolithus albus* Günther, Proc. Zool. Soc. Lond. 1864, 149, Chiapam; Panama.

- 1816. *Cynoscion macdonaldi* Gilbert.** *Toluava.*  
Gulf of California.  
*Cynoscion macdonaldi* Gilbert, Proc. U. S. Nat. Mus. 1890, 64, head of Gulf  
of California.

- 1817. *Cynoscion stolzmanni* (Steindachner).**  
Pacific Coast of tropical America from Panama to Peru.  
*Otolithus stolzmanni* Steindachner, Neue u. Seltene Fische k. k. Zool. Mus.  
Wien, 35, 1879, pl. 2, fig. 1, Tumbes, Peru.

**Subgenus ATRACTOSCION Gill.**

*Atractoscion* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 18 (*arquidens*).

- 1818. *Cynoscion nobilis* (Ayres).** "*White Sea-bass*" of California.  
Coast of California, north to San Francisco, occasionally straying farther.  
*Johnius nobilis* Ayres, Proc. Cal. Ac. Sci. 1860, 78, San Francisco.

- 1819. *Cynoscion phoxocephalus* Jordan & Gilbert.**  
Pacific Coast of tropical America; Panama.  
*Cynoscion phoxocephalum* Jordan & Gilbert, Bull. U. S. Fish. Com. 1881, 318,  
Panama.

- 1820. *Cynoscion leiarchus* (Cuvier & Valenciennes).**  
Coasts of Brazil and Guiana.  
*Otolithus leiarchus* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 78, 1830,  
Brazil; Cayenne.

- 1821. *Cynoscion virescens* (Cuvier & Valenciennes).**  
Coasts of Guiana and Brazil.  
*Otolithus virescens* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 72, 1830, Suri-  
nam.

- 1822. *Cynoscion microlepidotus* (Cuvier & Valenciennes).**  
Coast of Brazil and Guiana.  
*Otolithus microlepidotus* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 79, 1830,  
Surinam.

**Genus 575. SAGENICHTHYS Berg.**

*Sagenichthys* Berg, Ann. Mus. Nac. Buenos Aires, 52, 1895 (*ancylodon*).

- 1823. *Sagenichthys ancylodon* (Bloch & Schneider).** *Pescadillo del Rey.*  
Tropical America, on both coasts; Panama; Guiana; Brazil; Uruguay;  
rather scarce.  
*Lonchurus ancylodon* Bloch & Schneider, Syst. Ich., 102, pl. 25, 1801, Surinam.

**Genus 576. NEBRIS Cuvier & Valenciennes.**

*Nebria* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 149, 1830 (*microps*).

- 1824. *Nebria microps* Cuvier & Valenciennes.**  
Atlantic Coast of northern South America; sandy shores.  
*Nebria microps* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 149, pl. 112, 1830,  
Surinam.

- 1825. *Nebria zestus* Jordan & Starks.**  
Panama.  
*Nebria zestus* Jordan & Starks, in Jordan & Evermann, Fishes North and  
Middle America, 1896, Panama.

**Genus 577. PLAGIOSCION Gill.**

*Plagioscion* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 82 (a generic description only, no species or type being indicated).

**1826. *Plagioscion squamosissimus* (Heckel).**

Rivers of Guiana and Brazil; generally common southward.

*Sciæna squamosissima* Heckel, Annalen des Wiener Museum, II, 438, 1840, Amazon River.

**1827. *Plagioscion surinamensis* (Bleeker).**

Rivers of Guiana, Venezuela, and Colombia.

*Pseudosciæna surinamensis* Bleeker, Arch. Néerl. Sci. Exact. et Nat., VIII, 1873, 458, 18, Surinam.

**1828. *Plagioscion heterolepis* (Bleeker).**

Surinam.

*Johnius heterolepis* Bleeker, Arch. Néerl., VIII, 1873, with plate, Surinam.

**Genus 578. LARIMUS Cuvier & Valenciennes.**

*Larimus* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 145, 1830 (*breviceps*).

**1829. *Larimus argenteus* (Gill).**

Panama, locally common.

*Amblyscion argenteus* Gill, Proc. Ac. Nat. Sci. Phila. 1868, 165, west coast Central America.

**1830. *Larimus effulgens* Gilbert.**

Pacific Coast of Mexico, Sonora to Panama.

*Larimus effulgens* Gilbert ms., 1896, San Juan Lagoon, Sonora.

**1831. *Larimus acolivis* Jordan & Bristol.**

West coast of Mexico and Central America, from Sonora to Panama.

*Larimus acolivis* Jordan & Bristol, Proc. U. S. Nat. Mus. 1896, San Juan Lagoon, Sonora.

**1832. *Larimus breviceps* Cuvier & Valenciennes.**

West Indies, south to Brazil.

*Larimus breviceps* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 146, pl. 140, 1830, Brazil; San Domingo.

**1833. *Larimus pacificus* Jordan & Bollman.**

Pacific Ocean, off coast of Colombia.

*Larimus pacificus* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 161, Albatross Station 2802, 8° 38' N., 79° 31' 30" W., between Galapagos Islands and Panama.

**1834. *Larimus fasciatus* Holbrook.**

South Atlantic Coast of the United States, from Chesapeake Bay to Galveston, Texas; not common.

*Larimus fasciatus* Holbrook, Ichth. South Carolina, 153, pl. 22, fig. 1, 1860, Charleston, S. C.

**Genus 579. ODONTOSCION Gill.**

*Odontoscion* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 18 (*dentex*).

**1835. *Odontoscion dentex* (Cuvier & Valenciennes). *Corrina*.**

West Indies.

*Corrina dentex* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 139, pl. 109, 1830, San Domingo.

**1836. *Odontoscion xanthops* Gilbert.**

Panama.

*Odontoscion xanthops* Gilbert ms., 1896, Panama.

**Genus 580. CORVULA Jordan & Eigenmann.**

*Corrula* Jordan & Eigenmann, Review of Sciænidae Europe and America, in Report U. S. Fish Com. 1886 (1889), 377 (*batabana*).

*Corrula macrops* (Steindachner). *Facuocua*.

West Coast of tropical America, Mazatlan to Panama.

*Corrula macrops* Steindachner, Ichth. Beitr., III, 24, fig. 2, 1875, Panama.





**1838. *Corvula sialis* Jordan & Eigenmann.**

Florida Keys.

*Corvula sialis* Jordan & Eigenmann, Report U. S. Fish Com. 1886 (1889), 379, Key West.**1839. *Corvula subæqualis* (Poey).**

West Indies.

*Corvina subæqualis* Poey, Ann. Lyc. Nat. Hist. New York 1875, 58, Cuba.**1840. *Corvula sanctæ-luciæ* Jordan.**

West Indies.

*Corvula sanctæ-luciæ* Jordan, Proc. U. S. Nat. Mus. 1889, 649, Port Castries, St. Lucia.**1841. *Corvula batabana* (Poey).**

Cuba and Puerto Rico.

*Johnius batabanus* Poey, Memorias, II, 184, 1860, Batabano, south coast of Cuba.**Genus 581. ELATTARCHUS Jordan & Evermann.***Elattarchus* Jordan & Evermann, Fishes N. and M. Am., 1896 (*archidium*).**1842. *Elattarchus archidium* (Jordan & Gilbert).**

Panama.

*Odontoscion archidium* Jordan & Gilbert, Bull. U. S. F. C. 1881, 317, Panama.**Genus 582. BAIRDIELLA Gill. *Mademoiselles*.***Bairdiella* Gill, Cat. Fish. East Coast N. A., 33, 1861 (*argyroleuca* = *chrysur*).**1843. *Bairdiella chrysur* (Lacépède). *Mademoiselle*; *Yellow-tail*.**

South Atlantic and Gulf coasts of United States, north to New York; very abundant on our sandy shores from Long Island to Texas.

*Dipterodon chrysurus* Lacépède, Hist. Nat. Poiss., III, 64, 1802, South Carolina; after Linnaeus.**1844. *Bairdiella ensifera* (Jordan & Gilbert).**

Panama.

*Sciæna ensifera* Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 313, Bay of Panama; Punta Arenas.**1845. *Bairdiella icistia* (Jordan & Gilbert). *Corbineta*.**

Pacific Coast of Mexico, rather common about Mazatlan.

*Sciæna icistia* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 356, Mazatlan.**1846. *Bairdiella ronchus* (Cuvier & Valenciennes). *Ronco*; *Corvina*.**

Atlantic coasts of tropical America, generally common in the West Indies and along the coast of Brazil.

*Corvina ronchus* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 107, 1830, Maracaibo; Surinam.**1847. *Bairdiella armata* Gill.**

Both coasts of tropical America; not uncommon on the Pacific Coast about Panama, and equally abundant on the Atlantic Coast.

*Bairdiella armata* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 164, west coast of Central America.**1848. *Bairdiella aluta* (Jordan & Gilbert).**

Pacific Coast of Central America.

*Sciæna aluta* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 232, La Union, San Salvador.**1849. *Bairdiella chrysoleuca* (Günther).**

Panama.

*Corvina chrysoleuca* Günther, Fish. Central America, 387 and 427, plate 67, fig. 1, 1860, Panama.

## STELLIFER (Cuv.) Oken.

## Genus 583. STELLIFERUS Stark.

*Stelliferus* Stark, Elements Nat. Hist., i, 459, 1828 (*stellifer*); *Ido* Gill.

1850. *Stelliferus oscitans* (Jordan & Gilbert).

Panama.

*Sciæna oscitans* Jordan & Gilbert, Bull. U. S. F. C. 1881, 312, Bay of Panama.

1851. *Stelliferus furthi* (Steindachner).

Panama.

*Corvina* (*Homoprion*) *furthi* Steindachner, Ichth. Beitr., iii, 26, fig. 3, 1875, Panama.

1852. *Stelliferus illecebrosus* Gilbert.

Panama.

*Stelliferus illecebrosus* Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

1853. *Stelliferus stellifer* (Bloch).

Coasts of Guiana and Brazil.

*Bodianus stellifer* Bloch, Ichthyologia, pl. 231, 1790, "Cape of Good Hope."

1854. *Stelliferus lanceolatus* (Holbrook).

South Atlantic and Gulf coasts of United States, Charleston to Texas.

*Homoprion lanceolatus* Holbrook, Ichth. South Carolina, ed. 1, 168, pl. 23, 1856, Port Royal Sound, South Carolina.

1855. *Stelliferus ericymba* (Jordan & Gilbert).

Panama.

*Sciæna ericymba* Jordan & Gilbert, Bull. U. S. F. C. 1881, 311, Bay of Panama.

1856. *Stelliferus microps* (Steindachner).

Coast of Brazil and Guiana.

*Corvina microps* Steindachner, Ichth. Notizen, i, 6, pl. 2, fig. 1, 1864, Guiana.

1857. *Stelliferus zestocarus* Gilbert.

Panama.

*Stelliferus zestocarus* Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

## Genus 584. OPHIOSCION Gill.

*Ophioscion* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 164 (*typicus*).

1858. *Ophioscion adustus* Jordan & Evermann.

West Indies to coast of Brazil.

*Ophioscion adustus* Jordan & Evermann, Fishes North and Middle America, 1896, Pernambuco; Jérémie; Hayti; Brazil.

1859. *Ophioscion typicus* Gill.

Panama.

*Ophioscion typicus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 165, west coast Central America.

1860. *Ophioscion strabo* Gilbert.

Panama.

*Ophioscion strabo* Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

1861. *Ophioscion similus* Gilbert.

Panama.

*Ophioscion similus* Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

1862. *Ophioscion imiceps* (Jordan & Gilbert).

Panama.

*Sciæna imiceps* Jordan & Gilbert, Bull. U. S. F. C. 1881, 309, Bay of Panama.

1863. *Ophioscion scierus* (Jordan & Gilbert).

Pacific Coast of tropical America, from Mazatlan to Panama.

*Sciæna sciera* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 480, Panama.

1864. *Ophioscion vermicularis* (Günther).

Panama.

*Corvina vermicularis* Günther, Fish. Central America, 387 and 427, pl. 67, fig. 2, 1860, Panama.

Stellifer Oken. Isis 1817. 1182, (Les Stellifères)





**Genus 585. SCIÆNOPS Gill. Red Drums.***Sciænops* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 30 (*ocellatus*).

- 1865. *Sciænops ocellatus* (Linnæus). Red Drum; Channel Bass; "Redfish"; Pescado Colorado; Bull Redfish.**

South Atlantic and Gulf coasts of the United States, New York to Texas.

*Perca ocellata* Linnæus, Syst. Nat., ed. XII, 483, 1766, South Carolina.**Genus 586. SCIÆNA (Artedi) Linnæus. Black Drums.***Sciæna*, part, Artedi, Genera Piscium, 1738.**Subgenus CALLAUS Jordan.***Callaus* Jordan, Review of Sciænidæ, 401, 1889 (*deliciosa*).

- 1866. *Sciæna deliciosa* (Tschudi).**

Pacific Coast of South America, from Panama to Peru.

*Corvina deliciosa* Tschudi, Fauna Peruana Ichthyol., 8, 1845, Peru.**Subgenus CHEILOTREMA Tschudi.***Cheilotrema* Tschudi, Fauna Peruana, Fische, 13, 1845 (*fasciatum*).

- 1867. *Sciæna saturna* (Girard). Red Roncador; Black Croaker.**

Coast of southern California, from Santa Barbara to Cerros Island.

*Ambiodon saturnus* Girard, U. S. Pac. R. R. Survey, 98, 1858, San Diego, Cal.**Genus 587. RONCADOR Jordan & Gilbert.***Roncador* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 28 (*stearnsi*).

- 1868. *Roncador stearnsi* (Steindachner). Roncador.**

Coast of southern California, north to Santa Barbara.

*Corvina stearnsi* Steindachner, Ichth. Beitr., III, 22, 1875, San Diego.**Genus 588. LEIOSTOMUS Lacépède. Goodies.***Leiostomus* Lacépède, Hist. Nat. Poiss., IV, 439, 1802 (*xanthurus*).

- 1869. *Leiostomus xanthurus* Lacépède. Spot; Goody; Post-croaker; Oldwife; Lafayette.**

South Atlantic and Gulf coasts of United States; Cape Cod to Texas; once doubtfully recorded from Martinique.

*Leiostomus xanthurus* Lacépède, Hist. Nat. Poiss., IV, 439, pl. 10, fig. 1, 1802, Carolina.**Genus 589. PACHYPOPS Gill.***Pachypops* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 87 (*trifilis*).

- 1870. *Pachypops furcæus* (Lacépède).**

Rivers and estuaries of Guiana.

*Perca furcæa* Lacépède, Hist. Nat. Poiss., IV, 398, 424, 1802, Surinam.**Genus 590. GENYONEMUS Gill.***Genyonemus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 87 (*lineatus*).

- 1871. *Genyonemus lineatus* (Ayres). Little Roncador; Kingfish; Croaker.**

Coast of southern California, San Francisco to Cerros Island.

*Leiostomus lineatus* Ayres, Proc. Cal. Ac. Sci. 1855, 25, San Francisco.**Genus 591. MICROPOGON Cuvier & Valenciennes. Croakers.***Micropogon* Cuvier & Valenciennes, Hist. Nat. Poiss., V, 213, 1830 (*lineatus* = *undulatus*).

- 1872. *Micropogon undulatus* (Linnæus). Croaker; Roncadina; Corrina.**

South Atlantic and Gulf coasts of United States; Cape Cod to Texas.

*Perca undulata* Linnæus, Syst. Nat., ed. XII, 483, 1766, South Carolina.

- 1873. *Micropogon furnieri* (Desmarest). Ferrugato.**

West Indies and coasts of South America.

*Umbrina furnieri* Desmarest, Première Décade Ichthyol., 22, pl. 2, fig. 3, 182, Havana.

**1874. *Micropogon megalops* Gilbert.**

Gulf of California.

*Micropogon megalops* Gilbert, Proc. U. S. Nat. Mus. 1890, 64, Gulf of California, in 14 fathoms, at Albatross Station 3021.

**1875. *Micropogon ectenes* Jordan & Gilbert. *Verrugate*.**

Pacific Coast of Mexico; Mazatlan.

*Micropogon ectenes* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 355, Mazatlan.

**1876. *Micropogon altipinnis* Günther.**

Panama.

*Micropogon altipinnis* Günther, Proc. Zool. Soc. Lond. 1864, 149, San José: Panama; Chiapam.

**Genus 592. *UMBRINA* Cuvier.**

*Umbrina* Cuvier, Règne Animal, ed. i, ii, 297, 1817 (*cirrosa*; *Sciæna* L. being restricted to *Sciæna umbra*, a Linnæan, and to *Sciæna squilla*, a non-Linnæan species).

**1877. *Umbrina broussonnetii* Cuvier & Valenciennes.**

West Indies; Florida to Brazil.

*Umbrina broussonnetii* Cuv. & Val., Hist. Nat. Poiss., v, 187, 1830, Jamaica.

**1878. *Umbrina coroides* Cuvier & Valenciennes.**

Coast of Brazil.

*Umbrina coroides* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 187, 1830, Brazil.

**1879. *Umbrina roncadior* Jordan & Gilbert. *Yellow-finned Roncadior; Yellow-tail Croaker*.**

Coast of southern California, from Point Conception to Guaymas.

*Umbrina roncadior* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 277, Pequena Bay, west coast Lower California.

**1880. *Umbrina xanti* Gill.**

Pacific Coast of tropical America, Cape San Lucas to Panama.

*Umbrina xanti* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 256, Cape San Lucas.

**1881. *Umbrina sinaloæ* Scofield.**

Pacific Coast of Mexico; Mazatlan.

*Umbrina sinaloæ* Scofield, Proc. Cal. Ac. Sci. 1896, Mazatlan.

**1882. *Umbrina galapagorum* Steindachner.**

Galapagos Archipelago.

*Umbrina galapagorum* Steindachner, Ichth. Beitr., vii, 20, 1878, James Island, Galapagos.

**1883. *Umbrina dorsalis* Gill.**

Pacific Coast of Mexico.

*Umbrina dorsalis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 257, Cape San Lucas.

**Genus 593. *MENTICIRRHUS* Gill. *Kingfishes*.**

*Menticirrhus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 86 (*alburnus*).

**1884. *Menticirrhus simus* Jordan & Eigenmann.**

Pacific Coast of tropical America; Mazatlan to Panama.

*Menticirrhus simus* Jordan & Eigenmann, Review Sciænidæ, 427, 1889, Mazatlan and Panama.

**1885. *Menticirrhus nasus* (Günther).**

Panama.

*Umbrina nasus* Günther, Fishes Central America, 387 and 426, 1860, Panama.

**1886. *Menticirrhus panamensis* (Steindachner).**

Pacific Coast of tropical America; Mazatlan to Panama.

*Umbrina panamensis* Steindachner, Ichth. Beitr., iv, 9, 1875, Panama.

**1887. *Menticirrhus martinicensis* (Cuvier & Valenciennes).**

West Indies to Patagonia.

*Umbrina martinicensis* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 186, 1830, Martinique.





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- 1888. *Menticirrhus americanus* (Linnæus).** *Carolina Whiting; Sand Whiting.*  
 South Atlantic and Gulf coasts of United States; Chesapeake Bay to Texas.  
*Cyprinus americanus* Linnæus, Syst. Nat., ed. x, 321, 1758, Carolina; based  
 on *Whiting* of Catesby; (not *Cyprinus americanus* of 12th edition of  
*Systema Naturæ*, which is a cyprinoid, *Abramis bosci* C. & V.).
- 1889. *Menticirrhus saxatilis* (Bloch & Schneider).** *Kingfish; Sea Mink; Northern Whiting.*  
 Atlantic and Gulf coasts of the United States; Cape Ann to Key West and  
 Pensacola; most common northward.  
*Johnius saxatilis* Bloch & Schneider, Syst. Ichth., 75, 1801, New York.
- 1890. *Menticirrhus undulatus* (Girard).** *California Whiting; Sand Sucker.*  
 Southern California, north to Santa Barbara.  
*Umbrina undulata* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 148, San Diego, Cal.
- Subgenus **UMBRULA** Jordan & Eigenmann.  
*Umbrula* Jordan & Eigenmann, Review Sciænidæ, 424, 1889 (*littoralis*).
- 1891. *Menticirrhus elongatus* (Günther).** *Ferrugato.*  
 Pacific Coast of tropical America; Mazatlan to Panama.  
*Umbrina elongata* Günther, Proc. Zool. Soc. Lond. 1864, 148, Chiapas.
- 1892. *Menticirrhus littoralis* (Holbrook).** *Surf Whiting; Silver Whiting.*  
 South Atlantic and Gulf coasts of United States; North Carolina to Texas.  
*Umbrina littoralis* Holbrook, Ichth. South Carolina, ed. 1, 142, pl. 20, fig. 1,  
 1856, South Carolina.
- Genus **594. PARALONCHURUS** Bocourt.  
*Paralonchurus* Bocourt, Nouv. Arch. Mus., iv, 21, 1869 (*petersi*).
- Subgenus **POLYCLEMUS** Berg. *Corvalos.*  
*Polyclemus* Berg, Ann. Mus. Nac. Buenos Aires, 1895, 54 (*dumerili*).
- 1893. *Paralonchurus dumerili* (Bocourt).**  
 Panama.  
*Polycirrhus dumerili* Bocourt, Nouv. Arch. Mus. d'Hist. Natur., iv, 22, 1868,  
 La Union.
- Subgenus **ZONOSCION** Jordan & Evermann.  
*Zonoscion* Jordan & Evermann, new subgenus (*rathbuni*).
- 1894. *Paralonchurus rathbuni* (Jordan & Bollman).**  
 Panama.  
*Polycirrhus rathbuni* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 162,  
 Panama.
- Subgenus **ZACLEMUS** Gilbert.  
*Zaclemus* Gilbert, Proc. Cal. Ac. Sci. 1896 (*goodei*).
- 1895. *Paralonchurus goodei* Gilbert.**  
 Panama.  
*Paralonchurus goodei* Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.
- Subgenus **PARALONCHURUS** Bocourt.
- 1896. *Paralonchurus petersi* Bocourt.**  
 Coast of Central America, rare at Panama.  
*Paralonchurus petersi* Bocourt, Nouv. Archives du Muséum, iv, 1869, 22, La  
 Union, San Salvador.
- Genus **595. LONCHIURUS** Bloch.  
*Lonchiurus* Bloch, Ichthyologiæ, pl. 360, 1793 (*barbatus* = *lanceolatus*).
- 1897. *Lonchiurus lanceolatus* (Bloch).**  
 West Indies to Guiana.  
*Perca lanceolata* Bloch, Nov. Act. Sc. Copenh., iii, 383, 1788, India.

Genus 586. **POGONIAS** Lacépède. *Sea Drums.*

*Pogonias* Lacépède, Hist. Nat. Poiss., iii, 138, 1803 (*fasciatus* = *cromis*).

1898. *Pogonias cromis* (Linnaeus). *Drum.*

Atlantic coasts of America; Long Island to mouth of Rio Grande.

*Labrus cromis* Linnaeus, Syst. Nat., ed. xii, 479, 1766, Carolina.

1899. *Pogonias courbina* (Lacépède).

Guiana to Uruguay, rather common in Brazil.

*Pogonathus courbina* Lacépède, Hist. Nat. Poiss., v, 121, 1803, Rio de la Plata.

Genus 587. **APLODINOTUS** Rafinesque. *River Drums.*

*Aplodinotus* Rafinesque, Jour. de Phys. 1819, 418 (*grunniens*).

1900. *Aplodinotus grunniens* Rafinesque. *Fresh-water Drum; Gaspergon; Lake Sheepshead; Thunder-pumper; Croaker; Bubbler; White Perch.*

Great Lakes to Texas; abundant in all lakes and large streams west of the Alleghanies and east of the Great Plains.

*Aplodinotus grunniens* Rafinesque, Jour. de Phys. 1819, 88, Ohio River.

Genus 588. **EQUES** Bloch. *Ribbon-fishes.*

*Eques* Bloch, Syst. Ichthyologiae, 1793 (*americanus* = *lanceolatus*).

Subgenus **PARQUES** Gill.

*Parques* Gill, in Goode, Bull. U. S. Nat. Mus., v, 50, 1875 (*acuminatus*).

1901. *Eques viola* Gilbert.

Panama.

*Eques viola* Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

1902. *Eques acuminatus* (Bloch & Schneider).

West Indies; South Carolina to Brazil.

*Grammistes acuminatus* Bloch & Schneider, Syst. Ichth., 184, 1801, no locality; after Seba.

1902a. *Eques acuminatus umbrosus* Jordan & Eigenmann.

Southeast coast of the United States, Charleston to Pensacola.

*Eques acuminatus umbrosus* Jordan & Eigenmann, Review Sciandæ, 440, 1889, Charleston and Pensacola.

1903. *Eques punctatus* Bloch & Schneider. *Serranus; Hlepus.*

West Indies.

*Eques punctatus* Bloch & Schneider, Syst. Ichth., 108, 1801, Cuba; based on Parra, 2, pl. 2, fig. 2.

1904. *Eques pulcher* Steindachner.

Barbados.

*Eques pulcher* Steindachner, Ichth. Notizen, vi, 43, 1867, Barbados.

1905. *Eques lanceolatus* (Linnaeus). *Ribbon-fish; Gaspergon; Serranus.*

West Indies, ranging northward to Pensacola.

*Chatodon lanceolatus* Linnaeus, Syst. Naturæ, ed. x, 277, 1758, "Caribbean Islands"; based on Edwards, pl. 210.

#### Group **CIRRHITOIDEI** The Cirrhitoid Fishes.

#### Family **CLVIII. CIRRHITIDÆ** The Cirrhitids.

Genus 589. **CIRRHITES** Lacépède.

*Cirrhitæ* Lacépède, Hist. Nat. Poiss., v, 3, 1803 (*maculatus*).

1906. *Cirrhitæ rivulatus* Valenciennes.

Cape San Lucas to the Galapagos Islands.

*Cirrhitæ rivulatus* Valenciennes, Voyage Vénus, Poiss., 309, pl. 3, fig. 1, 1855, Galapagos Islands.

1907. *Cirrhitæ betaurus* Gill.

Cape San Lucas and Mazatlan.

*Cirrhitæ betaurus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 259, Cape San Lucas.





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## Suborder HOLCONOTI.

## Family CLIX. EMBIOTOCIDÆ. The Surf-Fishes.

## Genus 600. HYSTEROCARPUS Gibbons.

*Hysterocharpus* Gibbons, Daily Placer Times and Transcript, May 18, 1854, and in Proc. Ac. Nat. Sci. Phila., 1854, 124 (*traski*).

1908. *Hysterocharpus traski* Gibbons.

Rivers of central California, chiefly in the Sacramento Valley from Lake County to Santa Clara County.

*Hysterocharpus traski* Gibbons, Proc. Ac. Nat. Sci. Phila. 1854, 105, lower Sacramento River.

## Genus 601. ABEONA Girard.

*Abeona* Girard, Proc. Ac. Nat. Sci. Phila. 1855, 322 (*troubridgii* = *minimus*).

1909. *Abeona minima* (Gibbons).

San Francisco to San Diego.

*Cymatogaster minimus* Gibbons, Proc. Ac. Nat. Sci. Phila. 1854, 125, San Francisco Bay.

1910. *Abeona aurora* Jordan & Gilbert.

Monterey Bay, California.

*Abeona aurora* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 299, Monterey Bay, California.

## Genus 602. CYMATOGASTER Gibbons.

*Cymatogaster* Gibbons, Daily Placer Times and Transcript, May 18, 1854 (*aggregatus* and *minimus*).

1911. *Cymatogaster aggregatus* Gibbons. *Sparada*.

Pacific Coast, from Port Wrangel, Alaska, to Todos Santos Bay.

*Cymatogaster aggregatus* Gibbons, Daily Placer Times and Transcript, May 18, 1854, San Francisco.

## Genus 603. BRACHYISTIUS Gill.

*Brachyistius* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 275 (*frenatus*).

1912. *Brachyistius frenatus* Gill.

Vancouver Island to San Diego.

*Brachyistius frenatus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 275, California coast.

## Genus 604. ZALEMBIUS Jordan &amp; Evermann.

*Zalembeius* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*rosaceus*).

1913. *Zalembeius rosaceus* (Jordan & Gilbert).

San Francisco, California.

*Cymatogaster rosaceus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 303, off San Francisco.

## Genus 605. HYPOCRITICHTHYS Gill.

*Hypocritichthys* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 14, 275 (*analis*).

1914. *Hypocritichthys analis* (Alexander Agassiz).

San Francisco to Point Conception.

*Hyperprosopon analis* Alexander Agassiz, Proc. Bost. Soc. Nat. Hist. 1861, 133, San Francisco.

## Genus 606. HYPERPROSOPON Gibbons.

*Hyperprosopon* Gibbons, Daily Placer Times and Transcript, May 18, 1854 (*argenteus*).

1915. *Hyperprosopon argenteus* Gibbons. *Walleye Surf-fish*; *White Perch*.

Coast of California, Cape Disappointment to Todos Santos Bay.

*Hyperprosopon argenteum* Gibbons, Proc. Ac. Nat. Sci. Phila. 1854, 105, San Francisco.

1916. *Hyperprosopon agassizii* Gill.

Coast of California, San Francisco to Santa Barbara; most common along San Luis Obispo County.

*Hyperprosopon agassizii* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 276, California.

Genus 607. *HOLCONOTUS* Agassiz.

*Holconotus* Agassiz, Am. Jour. Sci. Arts, xvii, May, 1854, 367 (*rhodoterus*).

1917. *Holconotus rhodoterus* Agassiz.

Coast of California, San Francisco to San Diego.

*Holconotus rhodoterus* Agassiz, Am. Jour. Sci. Arts, May, 1854, 368, San Francisco.

Genus 608. *AMPHISTICHUS* Agassiz.

*Amphistichus* Agassiz, Am. Jour. Sci. Arts, May, 1854, 367 (*argenteus*).

1918. *Amphistichus argenteus* Agassiz. Surf-fish.

Pacific Coast from Cape Flattery to San Diego.

*Amphistichus argenteus* Agassiz, Am. Jour. Sci. Arts, May, 1854, 367, San Francisco.

Genus 609. *EMBLOToca* Agassiz.

*Emblotoca* Agassiz, Am. Jour. Sci. Arts, xvi, November, 1853, 386 (*jacksoni*).

1919. *Emblotoca jacksoni* Agassiz. Common Surf-fish; Black Perch.

Vancouver Island to San Diego.

*Emblotoca jacksoni* Agassiz, Am. Jour. Sci. Arts, 1853, 387, and 1854, 368, San Francisco.

Genus 610. *TENIOTOCA* Alexander Agassiz.

*Teniotoca* A. Agassiz, Proc. Bost. Soc. Nat. Hist., vii, 1861, 133 (*lateralis*).

1920. *Teniotoca lateralis* (Agassiz). Blue Perch; Striped Surf-fish.

Vancouver Island to San Diego.

*Emblotoca lateralis* Agassiz, Am. Jour. Sci. Arts, May, 1854, 368, San Francisco.

Genus 611. *PHANERODON* Girard.

*Phanerodon* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 163 (*furoatus*).

1921. *Phanerodon furoatus* Girard. White Surf-fish.

Pacific Coast, from Vancouver Island to San Diego.

*Phanerodon furoatus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 163, Presidio and Tomales Bay, California.

1922. *Phanerodon atripes* (Jordan & Gilbert).

Monterey Bay and banks off San Diego.

*Ditrema atripes* Jordan & Gilbert, Proc. U. S. N. M. 1880, 320, Monterey Bay.

Genus 612. *RHACCOCHILUS* Agassiz.

*Rhacochilus* Agassiz, Am. Jour. Sci. Arts, May, 1854, 367 (*toxotes*).

1923. *Rhacochilus toxotes* Agassiz. Alfene.

Coast of California, from San Francisco to San Diego.

*Rhacochilus toxotes* Agassiz, Am. Jour. Sci. Arts, May, 1854, 367, San Francisco.

Genus 613. *HYPSENUS* Alexander Agassiz.

*Hypsenus* Alexander Agassiz, Proc. Bost. Soc. Nat. Hist. 1861, 133 (*caryi*).

1924. *Hypsenus caryi* (Agassiz). Bugara.

Coast of California; very common from Cape Mendocino to San Diego.

*Emblotoca caryi* Agassiz, Am. Jour. Sci. Arts 1853, 389, and 1854, 368, San Francisco.

Genus 614. *DAMALICHTHYS* Girard.

*Damalichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1855, 321 (*vaccus*).

1925. *Damalichthys argyrosomus* (Girard). White Perch; Porges.

Pacific Coast from Vancouver Island to San Diego.

*Emblotoca argyrosoma* Girard, Proc. Ac. Nat. Sci. Phila. 1855, 136, San Francisco.





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## Suborder CHROMIDES.

## Family CLX. CICHLIDÆ. The Cichlids.

## Genus 615. PETENIA Günther.

*Petenia* Günther, Cat., iv, 301, 1862 (*splendida*).

1926. *Petenia splendida* Günther.

Guatemala.

*Petenia splendida* Günther, Cat., iv, 301, 1862, Lake Peten, Guatemala.

## Genus 616. ÆQUIDENS Eigenmann &amp; Bray.

*Æquidens* Eigenmann & Bray, Ann. N. Y. Ac. Sci. 1894, 616 (*tetramerus*).

1927. *Æquidens cœruleopunctatus* (Kner & Steindachner).

East slope of the Isthmus of Panama.

*Acara cœruleopunctata* Kner & Steindachner, Sitz. Bayer. Akad. 1863, † Rio Chagres, Panama.

## Genus 617. CICHLASOMA Swainson.

*Cichlasoma* Swainson, Nat. Hist. Class. Fishes, etc., ii, 230, 1839 (*punctatus* = *bimaculatus*).

## Subgenus CICHLASOMA Swainson.

1928. *Cichlasoma rectangulare* (Steindachner).

Mexico.

*Acara rectangularis* Steindachner, Chromiden Mejicos, i, 1864, Mexico.

1929. *Cichlasoma bartoni* (Bean).

Hauzteca Potosina, in San Luis Potosi, Mexico.

*Acara bartoni* T. H. Bean, Proc. U. S. Nat. Mus. 1892, 286, Hauzteca Potosina, Mexico.

1930. *Cichlasoma godmanni* (Günther).

Guatemala.

*Heros godmanni* Günther, Cat., iv, 296, 1862, River of Cahabon, Guatemala.

1931. *Cichlasoma sieboldii* (Kner & Steindachner).

New Grenada, and from the west slope of Panama.

*Heros sieboldii* Kner & Steindachner, Abhandl. Bayer. Akad. Wiss. x, 1864, 13, pl. 2, fig. 2, New Grenada.

1932. *Cichlasoma intermedium* (Günther).

Guatemala.

*Heros intermedius* Günther, Cat., iv, 298, 1862, Lake Peten, Guatemala.

1933. *Cichlasoma anguliferum* (Günther).

Guatemala.

*Heros angulifer* Günther, Cat., iv, 298, 1862, Rio de Santa Yzabal, Guatemala.

1934. *Cichlasoma fenestratum* (Günther).

Rivers of southern Mexico.

*Chromis fenestrata* Günther, Proc. Zool. Soc. Lond. 1860, 318, Rio de la Lana, Mexico.

1935. *Cichlasoma montezuma* (Heckel).

Mexico.

*Heros montezuma* Heckel, Brazil. Fluss-Fische, 383, 1840, Mexico.

1936. *Cichlasoma macracanthum* (Günther).

Chiapam and Huamuchal.

*Heros macracanthus* Günther, Proc. Zool. Soc. Lond. 1864, 153, Chiapam and Huamuchal.

1937. *Cichlasoma parma* (Günther).

Mexico and Guatemala.

*Heros parma* Günther, Cat., iv, 285, 1862, Mexico and Guatemala.

1938. *Cichlasoma margaritiferum* (Günther).  
Guatemala.  
*Heros margaritifer* Günther, Cat., iv, 287, 1862, Lake Peten, Guatemala.
1939. *Cichlasoma spilurum* (Günther).  
Rio Motagua, Guatemala.  
*Heros spilurus* Günther, Cat., iv, 289, 1862, Rio Motagua.
1940. *Cichlasoma longimanus* (Günther).  
Lake Nicaragua.  
*Heros longimanus* Günther, Fish. Centr. Amer., 453, 1869, Lake Nicaragua.
1941. *Cichlasoma bifasciatum* (Steindachner).  
Mexico.  
*Heros bifasciatus* Steindachner, Chromiden Mejicos, 4, 1864, Mexico.
1942. *Cichlasoma helleri* (Steindachner).  
Rio Teapa, Tabasco, Mexico.  
*Heros helleri* Steindachner, Chromiden Mejicos, 8, 1864, Mexico.
1943. *Cichlasoma balteatum* (Gill & Bransford).  
Lake Nicaragua.  
*Heros balteatus* Gill & Bransford, Proc. Ac. Nat. Sci. Phila. 1877, 184, Lake Nicaragua.
1944. *Cichlasoma rostratum* (Gill & Bransford).  
Lake Nicaragua.  
*Heros rostratus* Gill & Bransford, Proc. Ac. Nat. Sci. Phila. 1877, 181, Lake Nicaragua.
1945. *Cichlasoma malanopogon* (Steindachner).  
Central America.  
*Heros malanopogon* Steindachner, Chromiden Mejicos 16, in Denkschr. Akad. Wiss. Wien, xxiii, 1864, 72, pl. 1, fig. 3, Central America.
1946. *Cichlasoma melanurum* (Günther).  
Guatemala.  
*Heros melanurus* Günther, Cat., 288, 1862, Lake Peten, Guatemala.
1947. *Cichlasoma nebuliferum* (Günther).  
Mexico.  
*Chromis nebulifer* Günther, Proc. Zool. Soc. Lond. 1860, 318, Mexico.
1948. *Cichlasoma lentiginosum* (Steindachner).  
Mexico.  
*Heros lentiginosus* Steindachner, Chromiden Mejicos, 6, 1864, Mexico.
1949. *Cichlasoma deppei* (Heckel).  
Mexico.  
*Heros deppii* Heckel, Brasil. Flussfische, 382, 1840, Mexico.
- Subgenus ARCHOCENTRUS GILL.  
*Archocentrus* Gill, Proc. Ac. Nat. Sci. Phila. 1877, 186 (*centrarchus*).
1950. *Cichlasoma nigrofasciatum* (Günther).  
Lakes Atitlan, Amatitlan, and Nicaragua.  
*Heros nigrofasciatus* Günther, Fish. Centr. Amer., 452, 1869, Lake Atitlan.
1951. *Cichlasoma multispinosum* (Günther).  
Lake Managua, Guatemala.  
*Heros multispinosus* Günther, Fish. Centr. Amer., 453, 1869, Lake Managua.
1952. *Cichlasoma centrarchus* (Gill & Bransford).  
Lake Nicaragua.  
*Heros centrarchus* Gill & Bransford, Proc. Ac. Nat. Sci. Phila. 1877, 185, Lake Nicaragua.







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**Genus 618. HEROS Heckel.**

*Heros* Heckel, Ann. Wiener Mus. 1840, 362 (*severus*, etc., restricted by Jordan & Gilbert to *severus*).

**1953. *Heros friedrichsthalii* Heckel.**

Lake Peten, Lake Nicaragua and its outlet, Rio San Juan.

*Heros friedrichsthalii* Heckel, Brasil. Flussfische, 381, 1840, Rio San Juan.

**1954. *Heros salvini* Günther.**

Guatemala.

*Heros salvini* Günther, Cat., iv, 294, 1862, Rio de Santa Yzabal.

**1955. *Heros affinis* Günther.**

Lake Peten, Guatemala.

*Heros affinis* Günther, Cat., iv, 292, 1862, Lake Peten, Guatemala.

**1956. *Heros maculipinnis* Steindachner.**

Rio Xamapa, near Vera Cruz, Mexico.

*Heros maculipinnis* Steindachner, Chromiden Mejicos, 15, 1864, Rio Xamapa, near Vera Cruz, Mexico.

**1957. *Heros trimaculatus* Günther.**

Chiapam and Huamuchal.

*Heros trimaculatus* Günther, Fish. Centr. Amer., 461, 1869, Chiapam and Huamuchal.

**1958. *Heros labiatus* Günther.**

Lake Managua.

*Heros labiatus* Günther, Proc. Zool. Soc. Lond. 1864, 27, pl. 4, fig. 1, Lake Managua.

**1959. *Heros lobocheilus* Günther.**

Lake Managua.

*Heros lobocheilus* Günther, Fish. Centr. Amer., 457, 1869, Lake Managua.

**1960. *Heros erythræus* Günther.**

Lake Managua.

*Heros erythræus* Günther, Fish. Centr. Amer., 457, 1869, Lake Managua.

**1961. *Heros basilaris* Gill & Bransford.**

Lake Nicaragua.

*Heros basilaris* Gill & Bransford, Proc. Ac. Nat. Sci. Phila. 1877, 182, Lake Nicaragua.

**1962. *Heros nicaraguensis* Günther.**

Lake Nicaragua.

*Heros nicaraguensis* Günther, Proc. Zool. Soc. Lond. 1864, 153, Lake Nicaragua.

**1963. *Heros managuensis* Günther.**

Lake Managua.

*Heros managuensis* Günther, Fish. Centr. Amer., 463, 1869, Lake Managua.

**1964. *Heros citrinellus* Günther.**

Lake Nicaragua.

*Heros citrinellus* Günther, Proc. Zool. Soc. Lond. 1864, 153, Lake Nicaragua.

**1965. *Heros aureus* Günther.**

Lake Yzabal, Rio Motagua, and Lake Nicaragua.

*Heros aureus* Günther, Cat., iv, 292, 1862, Yzabal and Rio Motagua.

**1966. *Heros motaguensis* Günther.**

Rio Motagua and Lake Nicaragua.

*Heros motaguensis* Günther, Fish. Centr. Amer., 462, 1869, Rio Motagua.

**1967. *Heros oblongus* Günther.**

Rio Motagua.

*Heros oblongus* Günther, Fish. Centr. Amer., 464, 1869, Rio Motagua.

1968. *Heros doria* Günther.

Lake Nicaragua.

*Heros doria* Günther, Proc. Zool. Soc. Lond. 1864, 154, Lake Nicaragua.

1969. *Heros gibbicops* Steindachner.

Rio Teapa, Tabasco, Mexico.

*Heros gibbicops* Steindachner, Chromiden Mejicos, 12, 1864, Rio Teapa, Tabasco, Mexico.

1970. *Heros microphthalmus* Günther.

Rio Motagua.

*Heros microphthalmus* Günther, Cat., iv, 295, 1862, Rio Motagua.

1971. *Heros urophthalmus* Günther.

Lake Peten, Guatemala.

*Heros urophthalmus* Günther, Cat., iv, 291, 1862, Lake Peten, Guatemala.

1972. *Heros troscheli* Steindachner.

Mexico.

*Heros troscheli* Steindachner, Ichthyologische Notizen, iv, 12, 1867, Mexico.

1973. *Heros cyanoguttatus* (Baird & Girard).

Southwestern rivers of Texas and northeastern Mexico; basin of the Rio Grande; the only species of *Cichlidae* entering the United States.

*Herichthys cyanoguttatus* Baird & Girard, Proc. Ac. Nat. Sci. Phila., vii, 1854, 25, Rio Grande, Brownsville, Texas.

1974. *Heros pavonaceus* Garman.

Spring near Monclova, in Coahuila, Mexico.

*Heros pavonaceus* Garman, Bull. Mus. Comp. Zool., viii, 93, 1881, spring near Monclova, in Coahuila.

1975. *Heros altifrons* Kner & Steindachner.

Isthmus of Panama and southward.

*Heros altifrons* Kner & Steindachner, Sitzungsber. Bayer. Akad. 1863, 223, New Grenada.

1976. *Heros beani* Jordan. *Mojarra Verde*.

Rio Presidio, Mazatlan, Mexico.

*Heros beani* Jordan, Proc. U. S. Nat. Mus. 1888, 332, Rio Presidio, Mazatlan.

1977. *Heros tetraacanthus* (Cuvier & Valenciennes). *Plajacs*.

Rivers of Cuba.

*Centrarchus tetraacanthus* Cuvier & Valenciennes, Hist. Nat. Poiss., vii, 460, 1831, Cuba.

Genus 619. *THERAPS* Günther.

*Theraps* Günther, Cat., iv, 284, 1862 (*irregularis*).

1978. *Theraps irregularis* Günther.

Guatemala.

*Theraps irregularis* Günther, Cat., iv, 284, 1862, Guatemala.

Genus 620. *NEOTROPLUS* Günther.

*Neotroplus* Günther, Fish. Centr. Amer., 469, 1869 (*nematropus*).

1979. *Neotroplus nematropus* Günther.

Lake Managua.

*Neotroplus nematropus* Günther, Fish. Centr. Amer., 470, 1869, Lake Managua.

1980. *Neotroplus nicaraguensis* Gill & Bransford.

Lake Nicaragua.

*Neotroplus nicaraguensis* Günther, Proc. Ac. Nat. Sci. Phila. 1877, 186, Lake Nicaragua.

Genus 621. *SATANOPERCA* Günther. *Pappatarros*.

*Satanoperca* Günther, Cat., iv, 312, 1862 (*dæmon*).

1981. *Satanoperca crassilabris* Steindachner.

Panama.

*Geophagus* (*Satanoperca*) *crassilabris* Steindachner, Verh. Ak. Wiss. Wien 1876, 65, Panama.



*Azura* *hirsuta*  
Docno 3.

## Family CLXI. POMACENTRIDÆ. Demoiselles.

Genus 622. **CHROMIS** Cuvier. *Chauffe-Soleils*.

*Chromis* Cuvier, Mémoires du Mus. d'Hist. Nat., I, 353, 1815 (*chromis*).

Subgenus **FURCARIA** Poey.

*Furcaria* Poey, Memorias, II, 194, 1860 (*puncta*).

1982. **Chromis atrilobata** Gill.

Pacific Coast of America, from Cape San Lucas and southward.

*Chromis (Furcaria) atrilobata* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 149, Cape San Lucas, Lower California.

1983. **Chromis oyaneus** (Poey).

Cuba.

*Furcaria cyanea* Poey, Memorias, II, 196, 1860, Havana.

1984. **Chromis multilineatus** (Guichenot).

Cuba.

*Heliases multilineatus* Guichenot, in Ramon de la Sagra, Poiss. Cuba, 76, pl. 2, fig. 2, 1855, Havana.

Subgenus **AYRESIA** Cooper.

*Ayresia* Cooper, Proc. Cal. Ac. Sci. 1863, 73 (*punctipinnis*).

1985. **Chromis punctipinnis** (Cooper). *Blacksmith*.

Coast of California, from Point Conception to Cerros Island.

*Ayresia punctipinnis* Cooper, Proc. Cal. Ac. Sci. 1863, 73, San Diego Bay, San Pedro, and Santa Barbara.

Subgenus **HELIASES** Cuvier & Valenciennes.

*Heliases* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 495, 1830 (*insolatus*).

1986. **Chromis insolatus** (Cuvier & Valenciennes). *Chauffe-Soleil*.

West Indies, north to Pensacola.

*Heliases insolatus* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 494, pl. 137, 1830, Martinique.

1987. **Chromis enchrysurus** Jordan & Gilbert.

Snapper Banks, off Pensacola and Tampa, Florida.

*Chromis enchrysurus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 286, Pensacola, Florida.

Genus 623. **EUPOMACENTRUS** Bleeker. *Pescados Azules*.

*Eupomacentrus* Bleeker, Nat. Verh. Holl. Maats. Weten., II, 1877, 73 (*liridus*).

Subgenus **EUPOMACENTRUS** Bleeker.

1988. **Eupomacentrus leucorus** (Gilbert).

Socorro Island, one of the Revillagigedo group, off west coast of Mexico.

*Pomacentrus leucorus* Gilbert, Proc. U. S. Nat. Mus. 1891, 554, Socorro Island.

1989. **Eupomacentrus adustus** (Troschel).

Cuba.

*Pomacentrus adustus* Troschel, in J. W. von Müller's Reise in Mexico, 633, 1865, Mexico.

1990. **Eupomacentrus fuscus** (Cuvier & Valenciennes). *Maria Molle*.

West Indies and coast of Brazil north to Key West.

*Pomacentrus fuscus* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 432, 1830, Brazil.

1991. **Eupomacentrus rectifrænum** (Gill). *Pescado Azul*.

Pacific Coast of America, from Cape San Lucas to Panama.

*Pomacentrus rectifrænum* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 148, Cape San Lucas, Lower California.

**1992. *Eupomacentrus analis* (Poey).**

Cuba and Key West.

*Pomacentrus analis* Poey, Synopsia, 327, 1867, Havana.

**1993. *Eupomacentrus otophorus* (Poey).**

Cuba.

*Pomacentrus otophorus* Poey, Memorias, II, 188, 1860, Havana.

**1994. *Eupomacentrus leucostictus* (Müller & Troschel). *Beau Gregory; Black Pilot.***

West Indies to Snapper Banks, west Florida.

*Pomacentrus leucostictus* Müller & Troschel, in Schomburgk's Hist. Barbados, 674, 1848, Barbados.

**1995. *Eupomacentrus flaviventer* (Troschel).**

Atlantic Coast of Mexico.

*Pomacentrus flaviventer* Troschel, in Von Müller's Reise in Mexico, etc., 633, 1865, "Atlantic Ocean."

**1996. *Eupomacentrus flavilatus* (Gill). *Pescado Azul de dos Colores.***

Pacific Coast of America, from Cape San Lucas to Mazatlan and beyond.

*Pomacentrus flavilatus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 148, Cape San Lucas, Lower California.

**1997. *Eupomacentrus partitus* (Poey).**

Cuba.

*Pomacentrus partitus* Poey, Synopsia, 327, 1867, Havana.

**1998. *Eupomacentrus planifrons* (Cuvier & Valenciennes). *Petite Jaquette.***

West Indies, from Jamaica to Martinique.

*Pomacentrus planifrons* Cuvier & Valenciennes, Hist. Nat. Poiss., v, 431, 1830, Martinique.

**Genus 624. *ABUDEFDUF* Forskål. *Pistanoes.***

*Abudedefduf* Forskål, Descr. Anim., etc., 59, 1775 (*sordidus*).

**Subgenus *GLYPHISODON* Lacépède.**

*Glyphisodon* Lacépède, Hist. Nat. Poiss., iv, 542, 1803 (*moncharia*).

**1999. *Abudedefduf saxatilis* (Linnaeus). *Pistano, Cow-pilot; Jaqueta; Mojarras Raiado; Demoiselle.***

Both coasts of tropical America.

*Chaetodon saxatilis* Linnaeus, Syst. Nat., ed. x, 276, 1758, "India"; after Mus. Adolph Frederici.

**2000. *Abudedefduf declivifrons* (Gill).**

Pacific Coast of tropical America, from Cape San Lucas southward.

*Euschistodus declivifrons* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 145, Cape San Lucas.

**2001. *Abudedefduf analogus* (Gill).**

Atlantic Coast of Central America.

*Euschistodus analogus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 219, Aspinwall.

**2002. *Abudedefduf taurus* (Müller & Troschel). *Dovetail-fish.***

*Glyphidodon taurus* Müller & Troschel, in Schomburgk's History of Barbados, 674, 1848, Barbados.

**2003. *Abudedefduf rudis* (Poey).**

Cuba.

*Glyphidodon rudis* Poey, Memorias, II, 191, 1860, Havana.

**Genus 625. *HYPSPYPOPS* Gill. *Garibaldia.***

*Hypsypops* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 165 (*rubicundus*).

**2004. *Hypsypops rubicundus* (Girard). *Garibaldi.***

Coast of California south to Point Conception.

*Glyphisodon rubicundus* Girard, Proc. Ac. Nat. Sci. Phila. 1864, 148, Monterey, California.

Nepilaris concolor Hill  
Panama



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**Genus 626. MICROSPATHODON** Günther.*Microspathodon* Günther, Cat., iv, 35, 1862 (*chrysurus*).**2005. Microspathodon chrysurus** (Cuvier & Valenciennes).

West Indies, Cuba and St. Thomas.

*Glyphidodon chrysurus* Cuv. & Val., Hist. Nat. Poiss., v, 476, 1830, St. Thomas.**2006. Microspathodon bairdii** (Gill).

Pacific Coast of tropical America, from Cape San Lucas to Panama.

*Pomacentrus bairdii* Gill, Proc. Ac. Nat. Sci. Phila. 1862, Cape San Lucas.{ Large span  
Socorro  
Clarion**2007. Microspathodon niveatus.** (Poey).

Cuba.

*Pomacentrus niveatus* Poey, Enumeratio, 102, 1875, Havana.**2008. Microspathodon dorsalis** (Gill).

Pacific Coast of America, from Cape San Lucas to Mazatlan.

*Hypsypops dorsalis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 147, Cape San Lucas.**2008 a. Microspathodon dorsalis azurissimus** Jordan & Starks.

Mazatlan, Mexico; Panama.

*Microspathodon azurissimus* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 478, pl. 44, Venados Islands, Mazatlan.**2008 b. Microspathodon dorsalis cinereus** Gilbert.

Clarion and Socorro islands and Panama.

*Microspathodon cinereus* Gilbert, Proc. U. S. Nat. Mus. 1890, 50, Clarion and Socorro islands.**Suborder PHARYNGOGNATHI. The Labroid Fishes.****Family CLXII. LABRIDÆ. The Wrasse-Fishes.****Genus 627. CENTROLABRUS** Günther. *Rock Cooks.**Centrolabrus* Günther, Cat., iv, 92, 1862 (*exoletus*).**2009. Centrolabrus exoletus** (Linnæus). *Rock Cook.*

Coasts of northern Europe south to Cornwall; Greenland.

*Labrus exoletus* Linnæus, Syst. Nat., ed. x, 274, 1758, Atlantic Ocean.**Genus 628. TAUTOGOLABRUS** Günther. *Cunners.**Tautogolabrus* Günther, Cat., iv, 89, 1862 (*burgall* = *adpersus*).**2010. Tautogolabrus adpersus** (Walbaum). *Cunner: Chogset; Blue Perch; Bergall (Berg-gylt).*

Atlantic coasts of North America, from Labrador to Sandy Hook.

*Labrus adpersus* Walbaum, Artedi Piscinum, 254, 1792; after *Bergall* of Schöpfung, no locality.**Genus 629. TAUTOGA** Mitchill. *Tautogs.**Tautoga* Mitchill, Report Fishes New York, 23, 1814 (*tautoga*).**2011. Tautoga onitis** (Linnæus). *Tautog; Blackfish; Oyster-fish.*

Atlantic coasts of United States, Cape Ann to Charleston.

*Labrus onitis* Linnæus, Syst. Nat., ed. x, 286, 1758, locality unknown.**Genus 630. LACHNOLAIMUS** Cuvier & Valenciennes. *Capitaines.**Lachnolaimus* Cuvier & Valenciennes, Hist. Nat. Poissons, xiii, 274, 1839 (*aigula* = *maximus*).**2012. Lachnolaimus maximus** (Walbaum). *Hogfish; Capitaine; Perro Perro.*

West Indies, north to Key West and the Bermudas.

*Labrus maximus* Walbaum, Artedi Piscinum, 261, 1792, no locality; after Catesby.

Genus 631. **HARPE** Lacépède. *Lady-fishes.**Harpe* Lacépède, Hist. Nat. Poiss., iv, 426, 1802 (*cornico-aureus* = *rufa*).2013. **Harpe diplotænia** Gill.

Pacific Coast of tropical America; Cape San Lucas; Panama; Revillagigedo Islands; Mazatlan.

*Harpe diplotænia* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 140, Cape San Lucas.2014. **Harpe rufa** (Linnaeus). *Lady-fish; Spanish Lady-fish; Spanish Hog-fish; Pudiano; Perro Colorado.*

West Indies, north to Key West, south to Rio de Janeiro.

*Labrus rufus* Linnaeus, Syst. Nat., ed. x, 284, 1758, in America; after Catesby.2015. **Harpe eclancheri** (Valenciennes).

Galapagos Islands.

*Cosyphus eclancheri* Valenciennes, Voy. Vénus, Zool., 340, Poiss., pl. 8, fig. 2, plates 1846, text 1855, Galapagos Islands.2016. **Harpe pulchella** (Poey).

Cuba.

*Cosyphus pulchellus* Poey, Memorias, II, 206, 1860, Havana.Genus 632. **DECODON** Günther.*Decodon* Günther, Cat., iv, 101, 1862 (*puellaris* Poey).2017. **Decodon puellaris** (Poey).

West Indies; Cuba; Barbados; Snapper Banks.

*Cosyphus puellaris* Poey, Memorias, II, 210, 1860, Havana.Genus 633. **PIMELOMETOPON** Gill. *Fat-heads.**Pimelometopon* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 58 (*pulcher*).2018. **Pimelometopon pulcher** (Ayres). *California Redfish; Fat-head.*

Southern California, from Point Conception to Ascension Island, Lower California.

*Labrus pulcher* Ayres, Proc. Cal. Ac. Sci., I, 1854, 3, San Diego.2019. **Pimelometopon darwini** (Jenyns)

Galapagos Islands.

*Cosyphus darwini* Jenyns, Voy. Beagle, Fishes, 100, pl. 20, 1842, Chatham Island, Galapagos Archipelago.Genus 634. **CLEPTICUS** Cuvier & Valenciennes.*Clepticus* Cuvier & Valenciennes, Règne Animal, ed. II, vol. 2, 201, 1829 (*genizara* = *parræ*).2020. **Clepticus parræ** (Bloch & Schneider). *Genizara; Janissary.*

West Indies.

*Brama parræ* Bloch & Schneider, Syst. Ichth., 100, 1801, Havana.Genus 635. **IRIDIO** Jordan & Evermann.*Iridio* Jordan & Evermann, Fishes North and Middle America, 1896 (*radiatus*).2021. **Iridio radiatus** (Linnaeus). *Pudding Wife; Doncella; Pudiano Verde.*

West Indies, Brazil north to Florida Keys, Bermuda and St. Paul Rocks.

*Labrus radiatus* Linnaeus, Syst. Nat., ed. x, 288, 1758, Bahamas; based on Catesby.2022. **Iridio nicholsi** (Jordan & Gilbert).

Revillagigedo and Galapagos Islands.

*Platyglus nicholsi* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 231, Braithwaite Bay, Socorro Island.2023. **Iridio sellifer** (Gilbert).

Revillagigedo Archipelago.

*Halichares sellifer* Gilbert, Proc. U. S. Nat. Mus. 1890, 67, Clarion Island.





- 2024. *Iridio semicinctus* (Ayres). *Kelpfish*; *Señorita*.**  
Southern California, Santa Barbara Islands to Cerros Island.  
*Julis semicinctus* Ayres, Proc. Cal. Ac. Sci. 1859, 32, Cerros Island, off coast  
Lower California.
- 2025. *Iridio garnoti* (Cuvier & Valenciennes).**  
West Indies, Cuba, Martinique, St. Croix.  
*Julis garnoti* Cuv. & Val., Hist. Nat. Poiss., XIII, 390, 1839, Martinique.
- 2026. *Iridio cyanocephalus* (Bloch).**  
West Indies, south to Brazil.  
*Labrus cyanocephalus* Bloch, Ichthyol., pl. 286, 1791, locality unknown,  
Museum of Link.
- 2027. *Iridio maculipinna* (Müller & Troschel).**  
West Indies to Beaufort, North Carolina.  
*Julis maculipinna* Müller & Troschel, in Schomburgk, Hist. Barbados, 674,  
1848, Barbados.
- 2028. *Iridio bivittatus* (Bloch). *Slippery Dick*; *Doncella*.**  
West Indies, north to Beaufort, North Carolina, and south to Brazil.  
*Labrus bivittatus* Bloch, Ichthyol., pl. 284, fig. 1, 1792; from a painting by  
Plumier made at Martinique.
- 2029. *Iridio dispilus* (Günther).**  
Pacific Coast of tropical America, Mazatlan to Panama.  
*PlatyGLOSSUS dispilus* Günther, Proc. Zool. Soc. Lond. 1864, 25, Panama.
- 2030. *Iridio kirschii* Jordan & Evermann.**  
West Indies, south to Bahia; Cuba; Jamaica; St. Croix.  
*Iridio kirschii* Jordan & Evermann, Fishes N. and M. Amer. 1896, Jamaica.
- 2031. *Iridio poeyi* (Steindachner).**  
Surinam.  
*PlatyGLOSSUS poeyi* Steindachner, Ichth. Notizen, VI, 49, 1867, Surinam.
- 2032. *Iridio caudalis* (Poey).**  
Cuba.  
*Julis caudalis* Poey, Memorias, II, 213, 1860, Havana.
- 2033. *Iridio pictus* (Poey).**  
West Indies, north to the Snapper Banks off Pensacola.  
*Julis pictus* Poey, Memorias, II, 214, 1860, Havana.
- Genus 636. *OXYJULIS* Gill. *Señoritas*.**  
*Oxyjulis* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 330 (*modestus*).
- 2034. *Oxyjulis modestus* (Girard). *Señorita*.**  
Coast of southern California; Monterey to Guadalupe Island.  
*Julis modestus* Girard, Proc. Ac. Nat. Sci. Phila., VII, 1854, 151, San Diego, Mon-  
terey, and San Miguel.
- Genus 637. *EMMEEKIA* Jordan & Evermann.**  
*Emmeekia* Jordan & Evermann, Fishes N. and M. America, 1896 (*venustus*).
- 2035. *Emmeekia venusta* (Jenkins & Evermann).**  
Gulf of California.  
*Pseudojulis venustus* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 145,  
Guaymas, Sonora.
- Genus 638. *JULIDIO* Jordan & Evermann.**  
*Julidio* Jordan & Evermann, Fishes North and Middle America, 1896 (*adustus*).
- 2036. *Julidio adustus* (Gilbert).**  
Revillagigedo Islands.  
*Pseudojulis adustus* Gilbert, Proc. U. S. Nat. Mus. 1890, 66, Socorro Island.
- 2037. *Julidio notospilus* (Günther).**  
Pacific Coast of Mexico, Mazatlan to Panama.  
*Pseudojulis notospilus* Günther, Proc. Zool. Soc. Lond. 1864, 26, Panama.

**Genus 639. PSEUDOJULIS** Bleeker.

*Pseudojulis* Bleeker, Proc. Zool. Soc. Lond. 1861, 412 (*girardi*).

**2038. Pseudojulis inornatus** Gilbert.

Pacific Coast of Mexico; only the type known.

*Pseudojulis inornatus* Gilbert, Proc. U. S. N. M. 1890, 67, west coast of Mexico.

**2039. Pseudojulis melanotis** Gilbert.

Pacific Coast of Mexico; only the type known.

*Pseudojulis melanotis* Gilbert, Proc. U. S. N. M. 1890, 67, west coast of Mexico.

**Genus 640. CHLORICHTHYS** Swainson.

*Chlorichthys* Swainson, Nat. Hist. Class. Fishes, ii, 233, 1839 (*bifasciatus*, etc.).

**2040. Chlorichthys lucasanus** (Gill).

Gulf of California, Cape San Lucas to Mazatlan and Tres Marias.

*Julis lucasanus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 142, Cape San Lucas.

**2041. Chlorichthys socorroensis** (Gilbert).

Revillagigedo Archipelago.

*Thalassoma socorroense* Gilbert, Proc. U. S. Nat. Mus. 1890, 68, Socorro Island.

**2042. Chlorichthys nitidus** (Günther).

West Indies, Jamaica.

*Julis nitida* Günther, Cat., iv, 190, 1862, Jamaica.

**2043. Chlorichthys nitidissimus** (Goode).

Bermudas.

*Julis nitidissima* Goode, Am. Jour. Sci. Arts 1877, 293, Bermudas.

**2044. Chlorichthys steindachneri** (Jordan).

Acapulco, west coast of Mexico.

*Thalassoma steindachneri* Jordan, Review Labroid Fishes, 654, 1887 (1890), Acapulco; after Steindachner.

**2045. Chlorichthys bifasciatus** (Bloch).

West Indies, Cuba, Jamaica, San Domingo, and Martinique.

*Labrus bifasciatus* Bloch, Ichthyol., 131, pl. 283, 1792, West Indies.

**2046. Chlorichthys grammatus** (Gilbert).

Revillagigedo Archipelago.

*Thalassoma grammatum* Gilbert, Proc. U. S. Nat. Mus. 1890, 68, Socorro Island; Clarion Island.

**2047. Chlorichthys virens** (Gilbert).

Revillagigedo Archipelago.

*Thalassoma virens* Gilbert, Proc. U. S. Nat. Mus. 1890, 68, Socorro Island.

**Genus 641. DORATONOTUS** Günther.

*Doratonotus* Günther, Cat., iv, 124, 1862 (*megalepis*).

**2048. Doratonotus megalepis** Günther.

West Indies, north to Key West.

*Doratonotus megalepis* Günther, Cat., iv, 125, 1862, St. Christopher.

**Genus 642. XYRULA** Jordan.

*Xyrula* Jordan, Review Labroid Fishes, 656, 1887 (1890) (*jessiae*).

**2049. Xyrula jessiae** (Jordan).

Snapper Banks, off Tampa, Florida.

*Xyrichthys jessiae* Jordan, Proc. U. S. N. M. 1887, 696, off Tampa Bay, Florida.

**Genus 643. NOVACULICHTHYS** Bleeker.

*Novaculichthys* Bleeker, Proc. Zool. Soc. Lond. 1861, 414 (*macrolepidotus*).

**2050. Novaculichthys rosipes** (Jordan & Gilbert).

Key West, Florida.

*Xyrichthys rosipes* Jordan & Gilbert, Proc. U. S. N. M. 1884, 27, Key West.

**2051. Novaculichthys ventralis** (Bean).

Cozumel Island, Yucatan.

*Xyrichthys ventralis* Bean, Bull. U. S. F. C. 1888, 198, pl. 29, fig. 1, Cozumel.







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**2052. *Novaculichthys infirmus* (Bean).**

Cozumel, Yucatan.

*Xyrichthys infirmus* Bean, Bull. U. S. F. C. 1888, 199, pl. 29, fig. 2, Cozumel.**2053. *Novaculichthys martinicensis* (Cuvier & Valenciennes).**

Martinique.

*Xyrichthys martinicensis* Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 49, 1839, Martinique.**Genus 644. XYRICHTHYS Cuvier *Razor-fishes*.***Xyrichthys* Cuvier, Mém. Mus. d'Hist. Nat., i, 324, 329, 1815 (*novacula*).**2054. *Xyrichthys mundiceps* Gill.**

Cape San Lucas, Lower California.

*Xyrichthys mundiceps* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 143, Cape San Lucas.**2055. *Xyrichthys paittaeus* (Linnæus). *Razor-fish*.**

West Indies, north to Pensacola and Charleston.

*Coryphæna paittaeus* Linnæus, Syst. Nat., ed. xii, 448, 1766, Charleston, S. C.**2056. *Xyrichthys modestus* Poey.**

Cuba.

*Xyrichthys modestus* Poey, Repertorio, ii, 238, 1867, Havana.**Genus 645. INIISTIUS Gill.***Iniistius* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 143 (*pavo*).**2057. *Iniistius mundicorpus* Gill.**

Rocky islands on Pacific Coast of Mexico.

*Iniistius mundicorpus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 145, Cape San Lucas.**Family CLXIII. SCARIDÆ. The Parrot-Fishes.****Genus 646. CRYPTOTOMUS Cope.***Cryptotomus* Cope, Trans. Amer. Philos. Soc. 1871, 462 (*roseus*).**2058. *Cryptotomus dentiens* (Poey).**

Cuba.

*Calliodon dentiens* Poey, Memorias, ii, 422, 1861, Cuba.**2059. *Cryptotomus retractus* (Poey).**

West Indies, north to Pensacola.

*Calliodon retractus* Poey, Synopsis, 345, 1868, Havana.**2060. *Cryptotomus ustus* (Cuvier & Valenciennes).**

West Indies, north to Charleston, south to Bahia.

*Calliodon ustus* Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 286, 1839, Brazil.**2061. *Cryptotomus auropunctatus* (Cuvier & Valenciennes).**

San Domingo.

*Calliodon auropunctatus* Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 290, 1839, San Domingo.**2062. *Cryptotomus beryllinus* Jordan & Swain.**

Florida Keys, north to New Jersey, south to Rio Janeiro.

*Cryptotomus beryllinus* Jordan & Swain, Proc. U. S. N. M. 1884, 101, Havana.**2063. *Cryptotomus roseus* Cope.**

West Indies, south to Brazil.

*Cryptotomus roseus* Cope, Trans. Am. Phil. Soc., xiii, 1869, 462, St. Martins.**Genus 647. CALOTOMUS Gilbert.***Calotomus* Gilbert, Proc. U. S. Nat. Mus. 1890, 70 (*xenodon*).**2064. *Calotomus xenodon* Gilbert.**

Socorro Island, Rivillagigedo Archipelago.

*Calotomus xenodon* Gilbert, Proc. U. S. Nat. Mus. 1890, 70, Socorro Island.

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Genus 648. SPARISOMA Swainson. *Vieja*.

*Sparisoma* Swainson, Nat. Hist. Class. Fishes, etc., ii, 227, 1839 (*abildgaardi*).

Subgenus SPARISOMA Swainson.

2065. *Sparisoma xystrodon* Jordan & Swain.  
West Indies, north to Key West.  
*Sparisoma xystrodon* Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 99, Key West; Havana.
2066. *Sparisoma atomarium* (Poey).  
Cuba.  
*Scarus atomarium* Poey, Memorias, ii, 423, 1861, Havana.
2067. *Sparisoma radians* (Cuvier & Valenciennes).  
West Indies, south to Brazil.  
*Scarus radians* Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 206, 1839, Brazil.
2068. *Sparisoma hoplomystax* (Cope).  
West Indies, from Key West to Bahia.  
*Scarus hoplomystax* Cope, Trans. Amer. Philos. Soc. 1869, 462, St. Martins.
2069. *Sparisoma niphobles* Jordan & Bollman.  
Bahamas; only type known.  
*Sparisoma niphobles* Jordan & Bollman, Proc. U. S. Nat. Mus. 1888, 551, Green Turtle Cay, Bahamas.
2070. *Sparisoma aurofrenatum* (Cuvier & Valenciennes) ✓  
West Indies.  
*Scarus aurofrenatus* Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 191, 1839, San Domingo.
2071. *Sparisoma oxybrachium* (Poey).  
Cuba.  
*Scarus oxybrachius* Poey, Synopsis, 342, 1868, Havana.
2072. *Sparisoma abildgaardi* (Bloch). *Red Parrot-fish*.  
West Indies, south to Brazil.  
*Scarus abildgaardi* Bloch, Ichthyol., pl. 259, 1791, "America."
2073. *Sparisoma distinctum* (Poey). *Scarus distinctus* ✓  
Cuba.  
*Scarus distinctus* Poey, Memorias, ii, 423, 1861, Havana.
2074. *Sparisoma chrysopteron* (Bloch & Schneider). *Vieja*. ✓  
West Indies, south to Bahia.  
*Scarus chrysopterus* Bloch & Schneider, Syst. Ichth., 286, pl. 57, 1801, "American seas."
2075. *Sparisoma lorito* Jordan & Swain. ✓  
West Indies.  
*Sparisoma lorito* Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 95, Havana.
2076. *Sparisoma viride* (Bonnaterre). *Green Parrot-fish*. ✓  
West Indies.  
*Scarus viridis* Bonnaterre, Enc. Meth., x, 96, 193, 1788, Bahamas; after Catesby.
- Subgenus EUSCARUS Jordan & Evermann.  
*Euscarus* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*crotenaceus*).
2077. *Sparisoma strigatum* (Günther).  
Locality unknown; but as the genus *Sparisoma* is chiefly confined to American waters, this species is probably American.  
*Scarus strigatus* Günther, Cat., iv, 212, 1862, locality unknown.
2078. *Sparisoma flavescens* (Bloch & Schneider). *Vieja Colorado*; *Vieja Muger*.  
West Indies; Key West to Rio Janeiro.  
*Scarus flavescens* Bloch & Schneider, Syst. Ichth., 290, 1801, Cuba; after Parra.



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*rubifinne* *Cuv.***2079. *Sparisoma truncatum* (Poey)**

Cuba.

*Scarus truncatus* Poey, Synopsis, 339, 1868, Havana.**2080. *Sparisoma circumnotatum* (Poey). = *rubifinne***

Cuba.

*Scarus circumnotatus* Poey, Memorias, II, 423, 1861, Havana.**2081. *Sparisoma frondosum* (Cuvier).**

West Indies, south to Brazil.

*Scarus frondosus* Cuvier, in Agassiz, Spix, Pisc. Brasil., 98, 1829, Bahia.**2082. *Sparisoma brachialis* (Poey).**

Cuba.

*Scarus brachialis* Poey, Memorias, II, 345, 1861, Cuba.**2083. *Sparisoma maschalespilos* (Bleeker).**

Surinam.

*Scarus maschalespilos* Bleeker, Notices Ichthyologiques, I-X, 5, 1862, Surinam.**2084. *Sparisoma aracanga* (Günther). = *frondosum* *Agassiz***

Jamaica.

*Scarus aracanga* Günther, Cat., IV, 209, 1862, Jamaica.Genus 649. **SCARUS** Forskål. *Loros; Parrot-fishes.**Scarus* Forskål, Descr. Animal, etc., in Orient. Obs., 25, 1775 (*psitticus*, etc.).Subgenus **SCARUS** Forskål.**2085. *Scarus punctulatus* Cuvier & Valenciennes.**

West Indies.

*Scarus punctulatus* Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 195, 1839, Martinique.**2086. *Scarus bollmani* Jordan & Evermann.**

Gulf of Mexico, in moderately deep water.

*Scarus bollmani* Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 470, off Tampa Bay, Florida.**2087. *Scarus tæniopterus* Desmarest.**

West Indies.

*Scarus tæniopterus* Desmarest, Dict. Classique, XV, 244, pl. 12, 1831, Cuba.**2088. *Scarus aracanga* (Günther).**

West Indies.

*Pseudoscarus aracanga* Günther, Cat., IV, 227, 1862, Jamaica.**2089. *Scarus trispinosus* Cuvier & Valenciennes.**

Brazil.

*Scarus trispinosus* Cuv. & Val., Hist. Nat. Poiss., XIV, 182, 1839, Brazil.**2090. *Scarus cusamilæ* Bean.**

Cozumel Island, Yucatan.

*Scarus cusamilæ* Bean, Bull. U. S. Fish Com. 1888, 196, Cozumel.**2091. *Scarus vetula* (Bloch & Schneider). *Mudfish; Vieja; Old Wife.***

West Indies.

*Scarus vetula* Bloch & Schneider, Ichthyol., 289, 1801, Cuba.**2092. *Scarus gnathodus* Poey.**

Cuba.

*Scarus gnathodus* Poey, Repertorio, II, 240, 1867, Havana.Subgenus **CALLIODON** Gronow.*Calliodon* Gronow, in Bloch & Schneider, Syst. Ichth., 312, 1801 (*lineatus* = *croicensis*).**2093. *Scarus croicensis* (Bloch). *Bullon.***

West Indies, north to Key West.

*Scarus croicensis* Bloch, Ichthyol., pl. 221, 1790, St. Croix.

**2094. *Scarus evermanni* Jordan.**

Gulf of Mexico, in moderately deep water.

*Scarus evermanni* Jordan, Proc. U. S. Nat. Mus. 1886, 469, off Tampa Bay, in moderately deep water.**2095. *Scarus flavomarginatus* Cuvier & Valenciennes.**

Martinique.

*Scarus flavomarginatus* Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 212, 1839, Martinique.**2096. *Scarus acutus* Poey. Loro.**

Cuba.

*Scarus acutus* Poey, Memorias, ii, 216, 1861, Havana.**2097. *Scarus coeruleus* (Bloch). Blue Parrot-fish; Loro; Clamagore.**

West Indies; Chesapeake Bay.

*Coryphæna coerules* Bloch, Ausländische Fische, ii, 120, pl. 176, 1786, probably Martinique; in part after Catenby.**Genus 660. PSEUDOSCARUS Bleeker. Guacamais.***Pseudoscarus* Bleeker, Verh. Akad. Wet. Amsterdam, Serrolden, xii, 1861, 3 (*microrrhinos*).

Subgenus PSEUDOSCARUS Bleeker.

**2098. *Pseudoscarus celestinus* (Cuvier & Valenciennes). Loro.**

West Indies.

*Scarus celestinus* Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 180, 1839, St. Thomas.**2099. *Pseudoscarus simplex* Poey.**

Cuba.

*Pseudoscarus simplex* Poey, Repertorio, i, 185, 1867, Havana.**2100. *Pseudoscarus pleianus* (Poey).**

St. Thomas; only the type known.

*Scarus pleianus* Poey, Memorias, ii, 303, 1861, St. Thomas.

Subgenus LORO Jordan &amp; Evermann.

Loro Jordan & Evermann, Fishes N. and M. America, 1896 (*guacamais*).**2101. *Pseudoscarus guacamais* (Cuvier). Guacamais; Green Parrot-fish.**

West Indies, north to Florida Keys (straying to St. Augustine), south to Rio de Janeiro.

*Scarus guacamais* Cuvier, Règne Animal, ed. ii, vol. 2, 265, 1829, Cuba; after Parra.**2102. *Pseudoscarus perrioo* (Jordan & Gilbert).**

Pacific Coast of Mexico, from La Paz to Mazatlan.

*Scarus perrioo* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 357, Mazatlan.**Group ZEODEI.****Family CLXIV. ZEIDÆ. The John Dories.****Genus 661. ZENOPSIS Gill.***Zenopsis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 126 (*nebulosus*).**2103. *Zenopsis ocellatus* (Storer).**

Taken off Provincetown, Massachusetts.

*Zeus ocellatus* Storer, Proc. Bos. Soc. Nat. Hist., vi, 1858, 386, off Provincetown, Massachusetts.**Genus 662. ZENION Jordan & Evermann.***Zenion* Jordan & Evermann, Fishes North and Middle America, 1896 (*hololepis*).**2104. *Zenion hololepis* (Goode & Bean).**

Yucatan; Little Bahama Bank.

*Cyttus hololepis* Goode & Bean, Oceanic Ichthyology, 225, figs. 233, 233a, and 233b, 1896, off Yucatan and Little Bahama Bank.





**2114. *Chaetodon sedentarius* Poey.**

West Indian fauna.

*Chaetodon sedentarius* Poey, *Memorium*, 11, 203, 1860, Cuba.**2115. *Chaetodon aya* Jordan.**

Gulf of Mexico.

*Chaetodon aya* Jordan, *Proc. U. S. Nat. Mus.* 1886, 225, Snapper Banks, near Pensacola, Florida.Subgenus **TETRAGONOPTRUS** (Klein) Bleeker.*Tetragonopterus* Klein, *Historia Piscium*, 37, 1744 (many species, *striatus*, etc.).**2116. *Chaetodon striatus* Linnaeus. Portuguese Butterfly.**

West Indies.

*Chaetodon striatus* Linnaeus, *Syst. Nat.*, ed. x, 275, 1758, "India."**2117. *Chaetodon ateniatus* (Poey)**

Havana, Cuba.

*Sarothrodus ateniatus* Poey, *Synopsis*, 353, 1869, Havana.Subgenus **CHÆTODON** (Artedi) Linnaeus.**2118. *Chaetodon capistratus* Linnaeus. Parake.**

West Indies; Havana.

*Chaetodon capistratus* Linnaeus, *Syst. Nat.*, ed. x, 275, 1758, India.Genus 659. **POMACANTHUS** Lacépède. *Chairirita*.*Pomacanthus* Lacépède, *Hist. Nat. Poiss.*, iv, 517, 1803 (*arcuatus*, as restricted by Cuvier).Subgenus **POMACANTHUS** Lacépède.**2119. *Pomacanthus arcuatus* (Linnaeus). Black Angel; Chairirita.**

West Indies; north to New Jersey; south to Bahia.

*Chaetodon arcuatus* Linnaeus, *Syst. Nat.*, ed. x, 273, 1758, India.**2120. *Pomacanthus paru* (Bloch). Paru; Indian-fish; Flatfish.**

West Indies; south to Bahia.

*Chaetodon paru* Bloch, *Ichth.*, pl. 197, fig. 1, 1797, Brazil; on a drawing.Subgenus **POMACANTHODES** GILL.*Pomacanthodes* Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 244 (*sonipectus*).**2121. *Pomacanthus sonipectus* (Gill). Mojarrá de las Piedras.**

West coast of tropical America, from Mazatlan to Panama.

*Pomacanthodes sonipectus* Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 244, San Salvador.Genus 660. **HOLACANTHUS** Lacépède. *Catalinetas*.*Holacanthus* Lacépède, *Hist. Nat. Poiss.*, iv, 525, 1803 (*tricolor*).**2122. *Holacanthus passer* Valenciennes.**

West coast of tropical America; Cape San Lucas to Galapagos Islands.

*Holacanthus passer* Valenciennes, *Voyage Vénus*, 327, pl. 6, 1846, Galapagos Archipelago.**2123. *Holacanthus clarionensis* Gilbert.**

Clarion, Socorro, and San Benedicto islands of the Revillagigedo group.

*Holacanthus clarionensis* Gilbert, *Proc. U. S. Nat. Mus.* 1890, 72, Revillagigedo Islands; Clarion, Socorro, and San Benedicto.**2124. *Holacanthus tricolor* (Bloch). Catalineta; Paqueta de dos Colores; Rock Beauty.**

West Indies, north to Bermuda; south to Bahia.

*Chaetodon tricolor* Bloch, *Ichth.*, pl. 426, 1795.Genus 661. **ANGELICHTHYS** Jordan & Evermann.*Angelichthys* Jordan & Evermann, new genus (*ciliaris*).**2125. *Angelichthys isabelita* (Jordan & Rutter). Angel-fish.**

West Indies; north to Key West, Florida.

*Holacanthus isabelita* Jordan & Rutter MS., Key West.

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~~*Eximia*~~  
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**2126. *Angelichthys iodocus* (Jordan & Rutter).**

Galapagos Islands.

*Holacanthus iodocus* Jordan & Rutter, Proc. U. S. Nat. Mus. 1896, Galapagos Islands.**2127. *Angelichthys ciliaris* (Linnæus). *Angel-fish*; *Isabelita*; *Yellow Angel*.**

West Indies north to Key West.

*Chaetodon ciliaris* Linnæus, Syst. Nat., ed. x, 276, 1758, Indies; in part.**Family CLXVIII. ZANCLIDÆ. The Moorish Idols.****Genus 662. ZANCLUS Cuvier & Valenciennes.***Zanclus* Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 102, 1831 (*cornutus*).**2128. *Zanclus cornutus* (Linnæus). *Moorish Idol*; *Piquier*; *Porte-Enseigne*; *Besan*.**

East Indies and islands of Polynesia, ranging east to the Revillagigedos.

*Chaetodon cornutus* Linnæus, Syst. Nat., ed. x, 273, 1758, "Indies"; after Artedi.**Family CLXIX. TEUTHIIDIDÆ. The Surgeons.****Genus 663. TEUTHIS Linnæus. *Doctor-fishes*.***Teuthis* Linnæus, Syst. Nat., ed. XII, 507, 1766 (*hepatus*, *jarus*; after *Hepatus* Gronow, same species).**2129. *Teuthis triostegus* (Linnæus).**

Pacific Ocean, from New Zealand and Australia to the Hawaiian Islands and the Revillagigedos.

*Chaetodon triostegus* Linnæus, Syst. Nat., ed. x, 274, 1758, India.**2130. *Teuthis coeruleus* (Bloch & Schneider). *Barbero*; *Blue Surgeon*; *Blue Tang*.**

West Indies, Key West and Bermuda to Bahia.

*Acanthurus coeruleus* Bloch & Schneider, Syst. Ichth., 214, 1801, Carolina; Havana; Jamaica; after Catesby, Parra, and Browne.**2131. *Teuthis hepatus* Linnæus. *Common Surgeon*; *Doctor-fish*; *Lancet-fish*; *Barber*; *Tang-Barbero*.**

West Indian fauna; Florida to Bahia; Key West and Cuba; Charleston, South Carolina.

*Teuthis hepatus* Linnæus, Syst. Nat., ed. XII, 507, 1766, Carolina.**2132. *Teuthis crestonis* Jordan & Starks. *Barbero Negro*.**

West coast of Mexico and Central America, Mazatlan to Panama.

*Teuthis crestonis* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 485, pl. 47, Mazatlan.**2133. *Teuthis bahianus* (Castelnau). *Barbeiro*.**

West Indies and both coasts of tropical America, from Key West and Mazatlan to Bahia and Panama.

*Acanthurus bahianus* Castelnau, Anim. Nouv. ou Rares de l'Amér. du Sud, 24, pl. 2, fig. 1, 1855, Bahia.**Genus 664. XESURUS Jordan & Evermann.***Xesurus* Jordan & Evermann, new genus (*punctatus*).**2134. *Xesurus punctatus* (Gill). *Cochinito*.**

Cape San Lucas; Mazatlan; Creston Island.

*Prionurus punctatus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 242, Cape San Lucas.**2135. *Xesurus clarionis* Gilbert & Starks.**

Galapagos Islands.

*Xesurus clarionis* Gilbert & Starks, Proc. U. S. Nat. Mus. 1896, Clarion Island, Galapagos Archipelago.**2136. *Xesurus laticlavus* (Valenciennes).**

Galapagos Islands; only the type known.

*Prionurus laticlavus* Valenciennes, Voyage Vénus, 335, pl. 7, fig. 2, 1846, Galapagos Islands.

## Suborder SCLERODERMI

## Family CLXX TRIACANTHIDÆ

## Genus 665. HOLLARDIA Poey.

*Hollardia* Poey, *Memorias*, II, 348, 1861 (*hollandi*).2137. *Hollardia hollardi* Poey.*Hollardia hollardi* Poey, *Memorias*, II, 348, pl. 18, fig. 11, 1861, Cuba.

## Family CLXXI. BALISTIDÆ. The Trigger-Fishes.

## Genus 666. BALISTES (Artedi) Linnaeus.

*Balistes* (Artedi) Linnaeus, *Syst. Nat.*, ed. x, 327, 1758 (*retula*).

## Subgenus CAPRISCUS Rafinesque.

*Capricus* Rafinesque, *Indico*, 41, 1810 (*capricus*).2138. *Balistes polylepis* Steindachner.

Lower California to Panama.

*Balistes polylepis* Steindachner, *Ichth. Beitr.*, v, 21, 1876, Magdalena Bay; Mazatlan; Acapulco.2139. *Balistes naufragium* Jordan & Starks. *Pes Puerto de las Piedras*.

Mazatlan.

*Balistes naufragium* Jordan & Starks, *Proc. Cal. Ac. Sci.* 1895, 488, Mazatlan.2140. *Balistes carolinensis* Gmelin. *Leather Jacket*; "Turbot"; Cucuyo.

Tropical parts of the Atlantic; Gulf Stream; Mediterranean.

*Balistes carolinensis* Gmelin, *Syst. Nat.*, I, 1468, 1768, Carolina.2141. *Balistes forcipatus* Gmelin.

West coast of Africa and the neighboring islands.

*Balistes forcipatus* Gmelin, *Syst. Nat.*, I, 1472, 1768, Brazil; after *Gasperia* late of Lister.2142. *Balistes powelli* Cope.

Newport, Rhode Island; West Indies; in the Gulf Stream.

*Balistes powelli* Cope, *Proc. Ac. Nat. Sci. Phila.* 1870, 120, Newport, R. I.

## Subgenus BALISTES (Artedi) Linnaeus.

2143. *Balistes vetula* Linnaeus. *Bessy Cerka*.

Tropical parts of the Atlantic; West Indies; Gulf Stream to Woods Hole.

*Balistes vetula* Linnaeus, *Syst. Nat.*, ed. x, 329, 1758, Ascension Island; after*Balistes vetula* of Osbeck, *Iter Chinensis*, 294, 1757.

## Genus 667. PACHYNATHUS Swainson.

*Pachynathus* Swainson, *Classen. Fishes*, II, 326, 1839 (*triangularis* = *capistratus*); not *Pachygnatha* nor *Pachygnathus*; both these names earlier used for genera of spiders.2144. *Pachynathus capistratus* (Shaw). *Pez Puerto*.

Pacific Ocean; East Indies; China; Pacific Coast of tropical America, from Magdalena Bay to the Galapagos.

*Balistes capistratus* Shaw, *Genl. Zool.*, v, 417, 1804, after Lacépède.Genus 668. CANTHIDERMIS Swainson. *Sobacos*.*Canthidermis* Swainson, *Nat. Hist. Classen. Anim.*, II, 325, 1839 (*angulosus* = *maculatus*).2145. *Canthidermis sobaco* (Poey) *Sobaco*.

West Indies.

*Balistes sobaco* Poey, *Memorias*, II, 324, 1861, Havana.2146. *Canthidermis asperimus* (Cope).

St. Martins, West Indies.

*Balistes asperimus* Cope, *Trans. Amer. Philos. Soc.* 1871, 478, supposed to be from St. Martins.

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**2147. *Canthidermis sufflamen* (Mitchill). *Sobaco*.**

West Indies; Havana.

*Balistes sufflamen* Mitchill, Trans. Lit. Phil. Soc. N. Y., i, 1815, locality unknown, said by DeKay to be from the South Atlantic.**2148. *Canthidermis maculatus* (Bloch).**

West Indies.

*Balistes maculatus* Bloch, Ichthyologia, pl. 151, 1786, West Indies.**2149. *Canthidermis willughbeii* (Lay & Bennett).**

East Indies and Pacific Coast of Mexico.

*Balistes willughbeii* Lay & Bennett, Zoology, Beechey's Voyage, 68, pl. 21, fig. 2, 1839, Acapulco, Mexico.**Genus 669. *XANTHICHTHYS* Kaup.***Xanthichthys* Kaup, in Richardson, Enc. Brit., ed. xii, 313, 1856 (*curassavicus*).**2150. *Xanthichthys ringens* (Linnæus). *Cocuyo*.**

West Indies and southward, recorded from Mauritius.

*Balistes ringens* Linnæus, Syst. Nat., ed. x, 329, 1758, no locality.**2151. *Xanthichthys mento* (Jordan & Gilbert).**

West coast of Mexico.

*Balistes mento* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 228, Clarion Island, of the Revillagigedo group.**Genus 670. *MELICHTHYS* Swainson.***Melichthys* Swainson, Class. An., ii, 325, 1839 (*ringens* Bloch, not of Linnæus).**2152. *Melichthys piceus* (Poey). *Galafate*; *Calafate*.**

West Indies and southward.

*Balistes piceus* Poey, Proc. Ac. Nat. Sci. Phila. 1863, 180, Cuba.**2153. *Melichthys bispinosus* Gilbert.**

Clarion and Socorro islands.

*Melichthys bispinosus* Gilbert, Proc. U. S. Nat. Mus. 1890, 125, Clarion and Socorro islands, of the Revillagigedo group.**Family CLXXII. *MONACANTHIDÆ*. The File-Fishes.****Genus 671. *CANTHERINES* Swainson.***Cantherines* Swainson, Classn. Fishes, ii, 327, 1839 (*nasutus* = *sauwichensis*).**2154. *Cantherines pullus* (Ranzani). *Lija Colorada*.**

West Indies and coast of Brazil; southern Florida.

*Monacanthus pullus* Ranzani, Nov. Comm. Act. Sci. Inst. Bonon., v, 4, pl. 1, 1842, Brazil.**Genus 672. *MONACANTHUS* Cuvier.***Monacanthus* Cuvier, Règne Animal, ed. i, 152, 1817 (*chinensis*).**2155. *Monacanthus ciliatus* (Mitchill). *Leather-fish*; *Lija*; *Flap-mingo*.**

West Indies and Florida; Florida Keys.

*Balistes ciliatus* Mitchill, Amer. Monthly Mag. & Crit. Rev., March, 1818, 326, Bahama Straits.**2156. *Monacanthus hispidus* (Linnæus). *Fool-fish*; *File-fish*; *Leather-fish*; *Lija*; *Mingo*.**

Cape Cod to Cuba; South Atlantic Coast and Florida Keys; West Indies to Brazil.

*Balistes hispidus* Linnæus, Syst. Nat., ed. xii, 405, 1766, Carolina.**2157. *Monacanthus spilonotus* Cope.**

Gulf of Mexico.

*Monacanthus spilonotus* Cope, Trans. Amer. Philos. Soc. Phila., xiv, 1870, 476.



**2158. *Monacanthus oppositus* Poey.**

Cuba.

*Monacanthus oppositus* Poey, *Memorias*, II, 331, 1861, Havana.

Genus 673. **PSEUDOMONACANTHUS** Bleeker.

*Pseudomonacanthus* Bleeker, *Ned. Tijds. Dierkunde*, III, 1866, 11 (*macrurus*).

**2159. *Pseudomonacanthus amphioxys* (Cope)**

St. Martin's Island, West Indies.

*Monacanthus amphioxys* Cope, *Trans. Amer. Philom. Soc.* 1871, 477, St. Martin's.

Genus 674. **ALUTERA** Cuvier.

*Les alutères* Cuvier, *Règne Animal*, ed. 1, II, 133, 1817 (*monoceros*).

Subgenus **CERATACANTHUS** Gill.

*Ceratocanthus* Gill, *Cat. Fishes East Coast U. S.*, 57, 1861 (*aureticornis*).

**2160. *Alutera schoepfi* (Walbaum). File-fish; *Ija*; *Foul-fish*.**

Cape Cod to the Carolinas and Florida.

*Balistes schoepfi* Walbaum, *Artedi Placium*, 461, 1792, Long Island; after Schöpf, Berlin. *Ges. Naturf.*, VIII, 186, 1788.

**2161. *Alutera punctata* Agassiz. Long Mingo.**

Jamaica to Bahia.

*Alutera punctata* Agassiz, *Pisc. Brasil.*, 437, pl. 72, 1829, Brazil.

Subgenus **OSBECKIA** Jordan & Evermann.

*Osbeckia* Jordan & Evermann, new subgenus (*scripta*).

**2162. *Alutera scripta* (Osbeck). Unicorn-fish; *Ija Trompu*.**

Tropical seas; West Indies; North Carolina; off west coast of Mexico; Clarion Island, Revillagigedo Islands.

*Balistes scriptus* Osbeck, *Iter Chinensis*, I, 144, 1757, China.

Subgenus **ALUTERA** Cuvier.

**2163. *Alutera monoceros* (Osbeck). *Ija Barbuda*.**

West Indies; East Indies; Japan.

*Balistes monoceros* Osbeck, *Iter Chinensis*, 110, 1757, Asia.

**Suborder OSTRACODERMI. The Trunk-Fishes.**

**Family CLXXIII. OSTRACIDÆ.**

Genus 675. **LACTOPHRYS** Swainson. Three-angled Trunk-fishes.

*Lactophrys* Swainson, *Nat. Hist. Classn. Fishes*, II, 194, 324, 1839 (*trigonus*, etc.).

Subgenus **RHINOSOMUS** Swainson.

*Rhinosomus* Swainson, *Nat. Hist. Classn. Fishes*, II, 194, 324, 1839 (*triqueter*).

**2164. *Lactophrys triqueter* (Linnaeus). Trunk-fish; Rock Shellfish; Drunken-fish; Chapin; Plate-fish.**

West Indies, north to the Bermudas; Key West and Pensacola.

*Ostracion triqueter* Linnaeus, *Syst. Nat.*, ed. x, 330, 1758, India.

Subgenus **CHAPINUS** Jordan & Evermann.

*Chapinus* Jordan & Evermann, new subgenus (*bicaudalis*).

**2165. *Lactophrys bicaudalis* (Linnaeus). Chapin; Spotted Trunk-fish.**

West Indies, from Cuba to Ascension Island.

*Ostracion bicaudalis* Linnaeus, *Syst. Nat.* ed. x, 330, 1758, India; after Artedi.

Subgenus **LACTOPHRYS** Swainson.

**2166. *Lactophrys trigonus* (Linnaeus). Common Trunk-fish; Chapin; Shell-fish.**

West Indies, north to Bermuda and Key West; occasionally northward in Gulf Stream to Holmes Hole, Massachusetts, and Chesapeake Bay.

*Ostracion trigonus* Linnaeus, *Syst. Nat.*, ed. x, 330, 1758, India.

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## Subgenus ACANTHOSTRACION Bleeker.

*Acanthostracion* Bleeker, Atlas Ichth., v, 27, 1865 (*quadricornis*).**2167. *Lactophrys tricornis* (Linnæus). Cuckold; Toro; Cowfish.**

Tropical parts of Atlantic, from Carolina to Brazil, ranging north in the Gulf Stream to Charleston and Chesapeake Bay; Gulf of Mexico, at Pensacola and Galveston, eastward to Guinea and Cape of Good Hope.

*Ostracion tricornis* Linnæus, Syst. Nat., ed. x, 331, 1758, "In India"; after Artedi.

## Suborder GYMNODONTES.

## Family CLXXIV. TETRAODONTIDÆ. The Puffers.

Genus 676. LAGOCEPHALUS Swainson. *CRATYRACION* *Jenyns 1842**Lagocephalus* Swainson, Nat. Hist. and Classn. Fishes, II, 194, 328, 1839 (*pen-nanti* = *lagocephalus*). *Type Lævusmus lagocephalus***2168. *Lagocephalus lævigatus* (Linnæus). Smooth Puffer.**

Cape Cod to Brazil; rare north of Cape Hatteras.

*Tetrodon lævigatus* Linnæus, Syst. Nat., ed. XII, 411, 1766, Charleston, South Carolina.**2169. *Lagocephalus pachycephalus* (Ranzani). Jugfish.**

Jamaica to Brazil.

*Tetrodon pachycephalus* Ranzani, Nov. Comm. Ac. Sci. Inst. Bonon., IV, 1840, 73, pl. 2, fig. 2, Brazil.Genus 677. SPHEROIDES Lacépède. *TETRAODON*. *Swellfishes.**Les spheroides* Lacépède, Hist. Nat. Poiss., II, 1, 1798 (French name only, *tubercule*). *(Type T. testudineus)*

## Subgenus SPHEROIDES Lacépède.

**2170. *Spheroides angusticeps* (Jenyns).**

Pacific Coast, La Paz to the Galapagos Islands.

*Tetrodon angusticeps* Jenyns, Voyage Beagle, Fishes, 154, 28, 1842, Galapagos Islands.**2171. *Spheroides lobatus* (Steindachner). Botete.**

Gulf of California to the Galapagos Islands; Mazatlan; Panama.

*Canthogaster? lobatus* Steindachner, Ichth. Notizen, x, 1875, 18, pl. 5, fig. 3, Altata.**2172. *Spheroides spengleri* (Bloch). Southern Puffer; Swell Toad; Tambor.**

West Indies; coast of Texas and Florida, south to Rio Janeiro and to the Madeiras and Canaries.

*Tetrodon spengleri* Bloch, Ichth., I, 135, pl. 144, 1782, East Indies.**2173. *Spheroides marmoratus* (Ranzani). Spiny-back Blowfish.**

West Indies to Brazil; Jamaica.

*Tetrodon marmoratus* Ranzani, Nov. Comm. Ac. Sci. Inst. Bonon., IV, 1840, 72, pl. 10, fig. 1, Brazil.**2174. *Spheroides maculatus* (Bloch & Schneider). Puffer; Swell Toad; Blower.**

Atlantic Coast of the United States, from Cape Ann to St. Johns River and Biscayne Bay, Florida.

*Tetrodon hispidus* var. *maculatus* Bloch & Schneider, Syst. Ichth., 504, 1801, Rhode Island; after Schöpfung.

## Subgenus CHEILICHTHYS Müller.

*Cheilichthys* Müller, Abhandl. Akad. Wiss. Berl., 252, 1839 (1841) (*testudineus*).**2175. *Spheroides testudineus* (Linnæus). Tambor; Globefish; Blowfish.**

West Indies; Gulf Stream as far as Newport, Rhode Island.

*Tetraodon testudineus* Linnæus, Syst. Nat., ed. x, 332, 1758, in India; based on Balk and Artedi.**2176. *Spheroides annulatus* (Jenyns).**

Pacific Coast of tropical America.

*Tetrodon annulatus* Jenyns, Zool. Beagle, 153, 1842, Galapagos Islands.

- 2176a. *Spheroides annulatus politus* (Girard).  
Pacific Coast of tropical America, San Diego to Mazatlan  
*Tetrodon politus* Girard, Pac. R. R. Surv., x, 340, 1858, San Diego, California.

2177. *Spheroides formosus* (Günther).  
Panama.  
*Tetrodon formosus* Günther, Cat., viii, 209, 1870, South America.

2178. *Spheroides furthii* (Steindachner).  
Panama.  
*Tetrodon furthii* Steindachner, Ichth. Beitr., v, 22, 1874, Panama.

2179. *Spheroides trichocephalus* (Cope).  
Gulf Stream, off Newport.  
*Tetrodon trichocephalus* Cope, Proc. Ac. Nat. Sci. Phila. 1870, 120, Gulf Stream, off Newport, Rhode Island.

2180. *Spheroides pachygaster* (Müller & Troschel).  
Barbados.  
*Tetrodon (Cheilichthys) pachygaster* Müller & Troschel, in Schomburgk's Hist. Barbados, 677, 1840, Barbados.

Genus 678. *OVIDES* Lacépède.  
*Ooides* Lacépède, Hist. Nat. Poiss., i, 256, 1797 (*faux*; French name only; based on front view of *Tetraodon stellatus*).

2181. *Ovoides erethizon* (Jordan & Gilbert).  
Panama and neighboring islands.  
*Arothron erethizon* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 631, Panama.

2182. *Ovoides setosus* (Rosa Smith).  
West coast of Mexico; Revillagigedo Islands; Gulf of California.  
*Tetraodon setosus* Rosa Smith, Bull. Cal. Ac. Sci., ii, November 13, 1886, 6, "Mexico."

Genus 679. *COLOMESUS* Gill.  
*Colomesus* Gill, Proc. U. S. Nat. Mus. 1884, 422 (*psittacus*).

2183. *Colomesus psittacus* (Bloch & Schneider).  
River mouths, Guiana and northern Brazil; Rio Branco, Estequibo, Marañon, and Capin at Para; "West Indies."  
*Tetrodon psittacus* Bloch & Schneider, Syst. Ichth., 506, 1801, "Malabar."

Family CLXXV. *CANTHIGASTERIDÆ*. The Sharp-nosed Puffers.

Genus 680. *CANTHIGASTER* Swainson.  
*Canthigaster* Swainson, Nat. Hist. Fishes, ii, 194, 1839 (diagnosis only; no species mentioned; *rostratus* intended).

2184. *Canthigaster punctatissimus* (Günther).  
Pacific Coast of America, Gulf of California to Panama.  
*Tetrodon punctatissimus* Günther, Cat., viii, 302, 1870, Panama.

2185. *Canthigaster rostratus* (Bloch).  
West Indian fauna; Pensacola; Madeiras and Bermudas.  
*Tetrodon rostratus* Bloch, Ichth., i, pl. 146, 1782, India.

Family CLXXVI. *DIODONTIDÆ*. The Porcupine-Fishes.

Genus 681. *TRICHODIODON* Bleeker.  
*Trichodiodon* Bleeker, Atlas Ichth., Gymnodontes, 49, 1867 (*pilosus*).

2186. *Trichodiodon pilosus* (Mitchill).  
New York  
*Diodon pilosus* Mitchill, Trans. Lit. Philos. Soc. N. Y., i, 1815, 471, supposed to be from New York Harbor.

Evermann Spindell  
Key West.

Chilomycterus antillarum JorR  
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# CHECK-LIST OF NORTH AMERICAN FISHES.

Genus 682. **DIODON** Linnæus. *Porcupine-fishes.*

*Diodon* Linnæus, Syst. Nat., ed. x, 335, 1758 (*hystrix*).

427  
*Paradodon* Bleeker.  
(not allowable)

2187. *Diodon hystrix* Linnæus. *Porcupine-fish; Erizo; Puerco Espino; Soursap.*  
Tropical seas, north to Lower California, Hawaiian Islands and to Florida.  
*Diodon hystrix* Linnæus, Syst. Nat., ed. x, 335, 1758, India; after Artedi.

2188. *Diodon holacanthus* Linnæus.

All warm seas; north to Florida Keys; Lower California and Hawaiian Islands.

*Diodon holacanthus* Linnæus, Syst. Nat., ed. x, 335, 1758, India; based on Artedi.

2189. *Diodon maculifer* Kaup.

Cape of Good Hope; Cuba ?

*Diodon maculifer* Kaup, Wiegmann's Arch., 229, 1855, Cape of Good Hope.

Genus 683. **CHILOMYCTERUS** Bibron. *Burrfishes.*

*Chilomycterus* Bibron, in Barnville, Revue Zoologique, 40, 1846 (*reticulatus* = *tigrinus*).

Subgenus **CYCLICHTHYS** Kaup.

*Cyclichthys* Kaup, Wiegmann's Arch., 231, 1855 (*orbicularis*).

2190. *Chilomycterus schœpfi* (Walbaum). *Common Burrfish; Rabbit-fish; Swell Toad.*

Cape Cod to the West Indies.

*Diodon schœpfi* Walbaum, Artedi Pisc., 601, 1792, Long Island; after Schöpf.

2191. *Chilomycterus spinosus* (Linnæus).

West Indies and coast of Brazil.

*Diodon spinosus* Linnæus, Syst. Nat., ed. x, 335, 1758, India.

2192. *Chilomycterus antennatus* (Cuvier).

West Indies and southward; St. Croix; Jamaica; Porto Rico; Cape of Good Hope.

*Diodon antennatus* Cuvier, Mém. Mus., iv, 131, pl. 7, 1818.

Subgenus **CHILOMYCTERUS** Bibron.

2193. *Chilomycterus atinga* (Linnæus). *Atinga.*

West Indies to Bermuda and Florida Keys.

*Diodon atinga* (misprinted *atringa*) Linnæus, Syst. Nat., ed. x, 334, 1758, India.

2194. *Chilomycterus californiensis* Eigenmann.

San Pedro, California.

*Chilomycterus californiensis* Eigenmann, Am. Nat., 1891, 1133, San Pedro, California.

## Family CLXXVII. **MOLIDÆ.** The Headfishes.

Genus 684. **MOLA** Cuvier. *Headfishes.*

*Mola* Cuvier, Tableau Élém. Hist. Nat. Animaux, 323, 1798 (*rotunda* = *mola*).

2195. *Mola mola* (Linnæus). *Sunfish; Headfish; Mola; Pez Luna.*

Temperate and tropical seas, northward to England, Cape Cod, and San Francisco; rare in the West Indies.

*Tetrodon mola* Linnæus, Syst. Nat., ed. x, 334, 412, 1758, Mediterranean.

Genus 685. **RANZANIA** Nardo. *King of the Mackerels.*

*Ranzania* Nardo, Ann. Sci. Regn. Lombard. Venet., x, 1840, 105 (*truncatus*).

2196. *Ranzania truncata* (Retzius).

*Pelagic; occasionally on Atlantic Coast; Bermudas.*

*Tetrodon truncatus* Vet. Ak. Nya. Handl., vi, 2, 116, 1785.



## Suborder LORICATI

## Family CLXXVIII. SCORPÆNIDÆ. The Rockfishes.

Genus 686. *SEBASTES* Cuvier. *Rosefishes*.*Sebastes* Cuvier, Règne Animal, ed. 2, ii, 166, 1829 (*norvegicus marinus*).2197. *Sebastes marinus* (Linnaeus). *Rosefish*; *Redfish*; *Snapper*; *Hemdurgan*.

North Atlantic, both coasts, south to Faroe Islands, Maine, and in deep water off coast of middle New Jersey.

*Perca marina* Linnaeus, Syst. Nat., ed. x, i, 230, 1758, Norway.Genus 687. *SEBASTOLOBUS* Gill.*Sebastolobus* Gill, Rept. Smithsonian, Inst. 1880 (1881), 375 (*macrochir*).2198. *Sebastolobus alascanus* Bean.

Bering Sea; Pacific Coast of Alaska, Washington, Oregon, and California.

*Sebastolobus alascanus* Bean, Proc. U. S. Nat. Mus. 1890, 44, off Trinity Islands, Alaska, at Albatross Station 2853, 56° N., 154° W., in 159 fathoms.2199. *Sebastolobus altivelis* Gilbert.

Aleutian Islands, Alaska, and in deep water off the coast of California.

*Sebastolobus altivelis* Gilbert, Rept. U. S. F. C. 1893 (1896), 410, pl. 23, south of Alaska Peninsula, at Albatross Station 3338, in 625 fathoms.Genus 688. *SEBASTODES* Gill. *Rockfishes*.*Sebastes* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 165 (*paucispinus*).Subgenus *SEBASTODES* GILL.2200. *Sebastes jordanii* Gilbert.

Coast of California in deep water.

*Sebastes jordanii* Gilbert, Rept. U. S. F. C. 1893 (1896), 466, coast of California, at Albatross Stations 2935, 3103, and 3114, in 64 to 124 fathoms.2201. *Sebastes goodei* Eigenmann & Eigenmann.

San Diego to San Francisco.

*Sebastes goodei* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1890, 12, San Diego, California.2202. *Sebastes paucispinus* (Ayres). *Bocaccio*; *Merou*; *Jack*.

San Diego to San Francisco.

*Sebastes paucispinus* Ayres, Proc. Cal. Ac. Nat. Sci., 1, 1854, 6, San Francisco.Subgenus *SEBASTOSOMUS* GILL.*Sebastes* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 147 (*melanops*).2203. *Sebastes flavidus* (Ayres). *Yellow-tail Rockfish*.

San Diego to San Francisco.

*Sebastes flavidus* Ayres, Proc. Cal. Ac. Sci. 1862, 209, fig. 64, San Francisco.2204. *Sebastes serranoides* Eigenmann & Eigenmann.

Cortez Banks, off San Diego.

*Sebastes serranoides* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1890, 36, Cortez Banks.2205. *Sebastes melanops* (Girard).

Pacific Coast of America, from Monterey to Sitka.

*Sebastes melanops* Girard, Proc. Ac. Nat. Sci. Phila., viii, 1856, 135, Astoria, Oregon.Subgenus *PRIMOSPINA* Eigenmann & Beeson.*Primospina* Eigenmann & Beeson, Am. Nat. 1893, 609 (*myxinus*).2206. *Sebastes ciliatus* (Tilesius)

Coast of Alaska

*Trinephelus ciliatus* Tilesius, Mém. Ac. Sci. St. Petersburg., iv, 1810, 474, Aleutian Islands.





- 2207. *Sebastes mystinus* Jordan & Gilbert.** *Black Rockfish; Pêche Prêtre; Priest-fish.*  
Pacific Coast of America, from Puget Sound to San Diego.  
*Sebastichthys mystinus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880 (1881), 455, San Francisco.
- Subgenus ACUTOMENTUM Eigenmann & Beeson.  
*Acutomentum* Eigenmann & Beeson, Am. Nat. 1893, 669 (*oralis*).
- 2208. *Sebastes entomelas* (Jordan & Gilbert).**  
Pacific Coast of America, from Port Harford to Monterey Bay.  
*Sebastichthys entomelas* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 142, Monterey.
- 2209. *Sebastes rufus* Eigenmann & Eigenmann.**  
Pacific Coast of America, near San Diego; Cortez Banks.  
*Sebastes rufus* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1890, 13, Point Loma; Cortez Banks.
- 2210. *Sebastes macdonaldi* (Eigenmann & Beeson).** .  
San Diego, California.  
*Acutomentum macdonaldi* Eigenmann & Beeson, Am. Nat. 1893, 669, San Diego, California.
- 2211. *Sebastes brevispinis* (Bean).**  
Coast of Alaska.  
*Sebastichthys proriger* var. *brevispinis* Bean, Proc. U. S. Nat. Mus. 1883, 359, Hassler Harbor, Alaska.
- 2212. *Sebastes ovalis* (Ayres).** *Viura; Widow-fish.*  
Pacific Coast of United States from San Diego to San Francisco.  
*Sebastes ovalis* Ayres, Proc. Cal. Ac. Sci. 1862, 209-212, fig. 65, San Francisco.
- 2213. *Sebastes eigenmanni* Cramer.** .  
Coast of California.  
*Sebastes eigenmanni* Cramer, Proc. Cal. Ac. Sci. 1896, 239, Monterey, California.
- 2214. *Sebastes hopkinsi* Cramer.**  
Monterey Bay, California.  
*Sebastes hopkinsi* Cramer, Proc. Cal. Ac. Sci. 1895, with plate, Monterey Bay, California.
- 2215. *Sebastes alutus* (Gilbert).**  
Pacific Coast of America, from Bering Sea to Santa Barbara.  
*Sebastichthys alutus* Gilbert, Proc. U. S. Nat. Mus. 1890, 76, Santa Barbara Islands, California.
- 2216. *Sebastes proriger* (Jordan & Gilbert).**  
San Diego to San Francisco.  
*Sebastichthys proriger* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 327, Monterey, California.
- ROSICOLA Jordan & Evermann.  
*Rosicola* Jordan & Evermann, new subgenus (*pinniger*).
- 2217. *Sebastes pinniger* (Gill).** *Orange Rockfish.*  
Pacific Coast of America, from San Diego to Puget Sound.  
*Sebastosomus pinniger* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 147, San Francisco.
- 2218. *Sebastes miniatus* (Jordan & Gilbert).** *Rasciera; Rasher.*  
Pacific Coast of America, from San Francisco to San Diego.  
*Sebastichthys miniatus* Jordan & Gilbert, Proc. U. S. N. M. 1880, 70, Monterey, California.
- 2219. *Sebastes atrorubens* Gilbert.**  
Monterey, California.  
*Sebastes atrorubens* Gilbert, Proc. Cal. Ac. Sci. 1896, Monterey, California.

**2220. *Sebastes atrovirens* (Jordan & Gilbert).**

Coast of California, from San Diego to San Francisco.

*Sebastichthys atrovirens* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1890, 289, Monterey, California.Subgenus **KONEBASTER** Jordan & Evermann.*Eosebastes* Jordan & Evermann, new subgenus (*aurora*).**2221. *Sebastes saxicola* (Gilbert).**

Southern California, Santa Barbara Islands.

*Sebastichthys saxicola* Gilbert, Proc. U. S. Nat. Mus. 1890, 78, Santa Barbara Islands at Albatross Stations 2893, 2907, and others, in 44 to 155 fathoms.**2222. *Sebastes crameri* Jordan.**

Coast of Oregon.

*Sebastes crameri* Jordan, Proc. U. S. Nat. Mus. 1896, coast of Oregon, at Albatross Station 3091.**2223. *Sebastes semipunctus* Gilbert.**

Coast of California.

*Sebastes semipunctus* Gilbert, Proc. U. S. Nat. Mus. 1896, Santa Barbara Channel, California.**2224. *Sebastes diploproa* (Gilbert).**

Coast of southern California at Coronado Islands.

*Sebastichthys diploproa* Gilbert, Proc. U. S. Nat. Mus. 1890, 79, Coronado Islands at Albatross Station 2935, in 124 fathoms.**2225. *Sebastes aurora* (Gilbert).**

Coast of California about the Santa Barbara Islands.

*Sebastichthys aurora* Gilbert, Proc. U. S. Nat. Mus. 1890, 80, Santa Barbara Islands at Albatross Stations 2948 and 2960, in 268 and 287 fathoms.**2226. *Sebastes melanostomus* Eigenmann & Eigenmann.**

Coast of California to Alaska.

*Sebastes melanostomus* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. (2), III, 1890, 17, Point Loma, near San Diego, California.Subgenus **SEBASTOMUS** Gill.*Sebastomus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 147 (*rosaceus*).**2227. *Sebastes ruberrimus* Cramer. *Red Rockfish; Tamber.***

Pacific Coast of America, from San Diego to Puget Sound.

*Sebastes ruberrimus* Cramer, Proc. Cal. Ac. Sci. 1895, 597, pls. 62, 63, and 65, Monterey, California.**2228. *Sebastes constellatus* (Jordan & Gilbert). *Spotted Rockfish.***

Coast of California, from San Diego to San Francisco.

*Sebastichthys constellatus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1890, 295, Santa Barbara Channel; San Francisco.**2229. *Sebastes umbrosus* (Jordan & Gilbert).**

Coast of California, Point Conception to Coronado Islands.

*Sebastichthys umbrosus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 410, Santa Barbara.**2230. *Sebastes rosaceus* (Girard). *Corsair.***

Pacific Coast of United States, from San Diego to San Francisco.

*Sebastes rosaceus* Girard, Proc. Ac. Nat. Sci. Phila., VIII, 1854, 146, San Diego, San Francisco.**2231. *Sebastes ayresii* Gilbert & Cramer.**

Coast of southern California at Cortez Banks, near San Diego.

*Sebastes ayresii* Gilbert & Cramer, Proc. U. S. Nat. Mus. 1896, Cortez Banks, near San Diego, California.

*Sebastes alentianus* Jordan & Gilbert.

*Sebastes* *deane.*  
*clavilatus*  
*emphaeus* } Puget Sound  
Starks.  
Ann Carnegie Mus  
1911.



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- 2232. *Sebastes rhodochloris* (Jordan & Gilbert). *Flyfish*.**  
Off Monterey and San Francisco.  
*Sebastichthys rhodochloris* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 144, Monterey.
- 2233. *Sebastes eos* Eigenmann & Eigenmann.**  
Coast of California at Point Loma, near San Diego.  
*Sebastes eos* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., 18, 1890, Point Loma, near San Diego, California.
- 2234. *Sebastes gillii* Eigenmann & Eigenmann.**  
Coast of California at Point Loma, near San Diego.  
*Sebastes gillii* Eigenmann & Eigenmann, Am. Nat., February, 1891, 154, Point Loma, near San Diego, California.
- 2235. *Sebastes chlorostictus* (Jordan & Gilbert). *Pesca Vermiglia*.**  
San Diego; Monterey; San Francisco.  
*Sebastichthys chlorostictus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 294, Monterey, California.
- 2236. *Sebastes rupestris* (Gilbert).**  
Coast of California about the Santa Barbara Islands.  
*Sebastichthys rupestris* Gilbert, Proc. U. S. Nat. Mus. 1890, 76, Santa Barbara Islands, at Albatross Station 2946, in 150 fathoms.
- Subgenus **HISPANISCUS** Jordan & Evermann.  
*Hispaniscus* Jordan & Evermann, new subgenus (*rubrivinctus*).
- 2237. *Sebastes sinensis* (Gilbert).**  
Gulf of California.  
*Sebastichthys sinensis* Gilbert, Proc. U. S. Nat. Mus. 1890, 81, Gulf of California, at Albatross Station 3015, in 145 fathoms.
- 2238. *Sebastes zacentrus* (Gilbert).**  
Coast of California.  
*Sebastichthys zacentrus* Gilbert, Proc. U. S. Nat. Mus. 1890, 77, Santa Barbara Islands, at Albatross Stations 2893 and 2946, in 145 and 150 fathoms.
- 2239. *Sebastes elongatus* (Ayres). *Reina*.**  
California coast, from San Diego to San Francisco.  
*Sebastes elongatus* Ayres, Proc. Cal. Ac. Sci., 11, 1859, 26, fig. 9, San Francisco.
- 2240. *Sebastes levis* (Eigenmann & Eigenmann).**  
Coast of California, from San Diego to Monterey.  
*Sebastichthys levis* Eigenmann & Eigenmann, Notes from the San Diego Biol. Lab., 1, 6, 1889, San Diego, California.
- 2241. *Sebastes rubrivinctus* (Jordan & Gilbert). *Spanish Flag*.**  
California coast, from San Diego to Monterey.  
*Sebastichthys rubrivinctus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 291, Santa Barbara Channel.
- Subgenus **AUCTOSPINA** Eigenmann & Beeson.  
*Auctospina* Eigenmann & Beeson, Am. Nat. 1893, 670 (*auriculatus*).
- 2242. *Sebastes auriculatus* (Girard). *Brown Rockfish*.**  
Pacific Coast of America, from Cape Mendocino to Cerros Island.  
*Sebastes auriculatus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 131, 146, San Francisco.
- 2242a. *Sebastes auriculatus dallii* (Eigenmann & Beeson).**  
Pacific Coast of America, from San Francisco to Puget Sound.  
*Pteropodus dallii* Eigenmann & Beeson, Amer. Nat., January, 1894, 66, San Francisco.
- Subgenus **PTEROPODUS** Eigenmann & Beeson.  
*Pteropodus* Eigenmann & Beeson, Am. Nat. 1893, 670 (*maliger*).
- 2243. *Sebastes rastrelliger* (Jordan & Gilbert). *Grass Rockfish*.**  
California coast, from San Diego to San Francisco.  
*Sebastichthys rastrelliger* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 296, Monterey.



**2244. *Sebastes caurinus* (Richardson).**

Pacific Coast of America, from Puget Sound to Sitka.

*Sebastes caurinus* Richardson, Voy. Sulphur, Ichthyology, 77, pl. 41, fig. 1, 1845, Sitka.

**2245. *Sebastes vexillaris* (Jordan & Gilbert).**

California coast, from San Diego to Mendocino.

*Sebastes vexillaris* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 292, Santa Barbara Channel; San Francisco.

**2246. *Sebastes maliger* (Jordan & Gilbert). *Yellow-backed Rockfish.***

Pacific Coast of America, from Monterey to Sitka.

*Sebastes maliger* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 322, San Francisco.

**2247. *Sebastes gilberti* Cramer.**

Coast of California.

*Sebastes gilberti* Cramer, Proc. Cal. Ac. Sci. 1896, 241, with plate, San Francisco.

**2248. *Sebastes carnatus* (Jordan & Gilbert). *Flesh-colored Rockfish.***

California coast, from San Diego to San Francisco.

*Sebastes carnatus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 73, Monterey, California.

**2249. *Sebastes chrysomelas* (Jordan & Gilbert). *Black-and-yellow Rockfish.***

Pacific Coast of America, from Puget Sound to San Diego.

*Sebastes chrysomelas* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 455, 465, Monterey, California.

**2250. *Sebastes nebulosus* (Ayres). *Yellow-spotted Rockfish.***

Pacific Coast, Vancouver Island to Point Conception.

*Sebastes nebulosus* Ayres, Proc. Cal. Ac. Sci. 1, 1854, 5, San Francisco.

**Subgenus SEBASTICTHYS GILL.**

*Sebastichthys* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 329 (*nigrocinctus*).

**2251. *Sebastes serriceps* (Jordan & Gilbert). *Treefish.***

Coast of California, from Point Reyes to Cerros Island.

*Sebastes serriceps* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 38, Santa Barbara and Santa Catalina islands, California.

**2252. *Sebastes nigrocinctus* (Ayres). *Black-banded Rockfish.***

Pacific Coast of America, from Monterey to Vancouver Island.

*Sebastes nigrocinctus* Ayres, Proc. Cal. Ac. Sci. II, 1859, 25, 217, fig. 6, San Francisco.

**Genus 689. SEBASTOPSIS GILL.**

*Sebastes* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 276 (*polyplepis*).

**2253. *Sebastes xyris* Jordan & Gilbert.**

West coast of Mexico.

*Sebastes xyris* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 369, Cape San Lucas, Lower California.

**Genus 690. HELICOLENUS Goode & Bean.**

*Helicolenus* Goode & Bean, Oceanic Ichthyology, 248, 1896 (*dactylopterus*).

**2254. *Helicolenus dactylopterus* (De la Roche) *Seran Imperial; Fanegal; Cardonniera; Scorfandi; Funal; Crabra.***

Deep waters of Atlantic Coast from Narragansett to Chesapeake Bay.

*Scorpaena dactyloptera* De la Roche, Ann. Mus., XIII, 1809, pl. 22, fig. 2, Ivica, Barcelona.

**2255. *Helicolenus maderensis* Goode & Bean. *Boca Negra; Pai de Gate.***

Eastern coast of United States, from New York to Cape Hatteras.

*Helicolenus maderensis* Goode & Bean, Oceanic Ichth., 250, 1896, Madeira.

Sebastodes glaucus Hilgendorf  
Sebastodes taczanowskii Steadachner ; Lenz



**Genus 691. SCORPÆNA (Artedi) Linnæus.***Scorpena* Artedi, in Linnæus, Syst. Nat., ed. x, 266, 1758 (*porcus*).**2256. Scorpena agassizii Goode & Bean.**

Mid-ocean east of Cuba.

*Scorpena agassizii* Goode & Bean, Oceanic Ichth., 247, fig. 243, 1896, latitude 32° 13' N., longitude 39° 10' W.**2257. Scorpena cristulata Goode & Bean.**

Atlantic Ocean, off coast of Georgia.

*Scorpena cristulata* Goode & Bean, Oce. Ichth., 247, fig. 242, 1896, off Georgia.**2258. Scorpena brasiliensis Cuvier & Valenciennes.**

Atlantic Coast, from Charleston to Rio Janeiro.

*Scorpena brasiliensis* Cuvier & Valenciennes, Hist. Nat. Poiss., iv, 305, 1829, Brazil.**2259. Scorpena histrio Jenyns.**

Pacific Coast of America, Panama to Juan Fernandez; Galapagos Islands.

*Scorpena histrio* Jenyns, Voyage Beagle, Fishes, 35, pl. 8, 1842, Chatham Island, Galapagos Archipelago.**2260. Scorpena pannosa Cramer.**

Panama.

*Scorpena pannosa* Cramer, Proc. U. S. Nat. Mus., 1896, with plate, Panama.**2261. Scorpena guttata Girard. Scorpene; Scorpion; Sculpin.**

Coast of California, from Monterey to Ascension Island.

*Scorpena guttata* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 145, Monterey.**2262. Scorpena plumieri Bloch. Rascacio; Poison Grouper.**

West Indies and Brazil, north to Florida.

*Scorpena plumieri* Bloch, Nya. Handl. Stockh., x, 234, 1789, Martinique.**2263. Scorpena mystes Jordan & Starks. Lapon.**

Coast of Mexico.

*Scorpena mystes* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 491, pl. 52, Mazatlan, Mexico.**2264. Scorpena grandicornis Cuvier & Valenciennes. Lion-fish; Poison Grouper.**

Florida Keys to Brazil.

*Scorpena grandicornis* Cuvier & Valenciennes, Hist. Nat. Poiss., iv, 309, 1829, Martinique, Porto Rico, Havana, San Domingo.**2265. Scorpena russula Jordan & Bollman.**

Pacific Coast of Colombia.

*Scorpena russula* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 165, Pacific Coast of Colombia.**2266. Scorpena sonoriæ Jenkins & Evermann.**

Guaymas, Gulf of California, and Santa Margarita Island.

*Scorpena sonoriæ* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 150, Guaymas, Sonora.**2267. Scorpena inermis Cuvier & Valenciennes.**

West Indies, north to Florida.

*Scorpena inermis* Cuvier & Valenciennes, Hist. Nat. Poiss., iv, 311, 1829, Martinique.**Genus 692. PONTINUS Poey.***Pontinus* Poey, Memorias, II, 172, 1860 (*castor*).**2268. Pontinus macrolepis Goode & Bean.**

Yucatan.

*Pontinus macrolepis* Goode & Bean, Ocean. Ichth., 257, fig. 247, 1896, off Yucatan.**2269. Pontinus castor Poey.**

Havana.

*Pontinus castor* Poey, Memorias, II, 173, 1860, Havana.

2270. *Pontinus pollux* Poey.

Havana.

*Pontinus pollux* Poey, *Memorias*, II, 174, 1860, Havana.

2271. *Pontinus rathbuni* Goode & Bean.

Coast of North Carolina.

*Pontinus rathbuni* Goode & Bean, *Ocean. Ichth.*, 255, fig. 245, 1896, off Cape Hatteras.

2272. *Pontinus longispinis* Goode & Bean.

Coast of western Florida.

*Pontinus longispinis* Goode & Bean, *Ocean. Ichth.*, 258, fig. 246, 1896, west coast of Florida, lat. 28° 36' N., long. 85° 33' 30" W., in 111 fathoms.

2273. *Pontinus sierra* (Gilbert).

Gulf of California.

*Scorpena* (*Sebastopus*) *sierra* Gilbert, *Proc. U. S. Nat. Mus.* 1890, 82, Gulf of California, at Albatross Stations 2996 and 3011 in 112 and 71 fathoms.

Genus 693. *SETARCHES* Johnson.

*Setarches* Johnson, *Proc. Zool. Soc. Lond.* 1862, 177 (*guntheri*).

2274. *Setarches parmatum* Goode.

Coasts of Rhode Island, North Carolina, and western Florida, in deep water.

*Setarches parmatum* Goode, *Proc. U. S. Nat. Mus.*, III, 1880, 480, off coast of Rhode Island.

Family CLXXIX. HEXAGRAMMIDÆ.

Genus 694. *PLEUROGRAMMUS* Gill. *Atka Mackerels*.

*Pleurogrammus* Gill, *Proc. Ac. Nat. Sci. Phila.* 1861, 166 (*monopterygius*).

2275. *Pleurogrammus monopterygius* (Pallas). *Atka Mackerel*.

North Pacific about Atka and other of the Aleutian Islands.

*Labrax monopterygius* Pallas, *Mém. Ac. Sci. St. Petersb.*, II, 1810, 391, Unalaska.

Genus 695. *HEXAGRAMMOS* Steller.

*Hexagrammos* Steller, in Tilesius, *Act. Ac. Petrop.*, II, 335, 1810 (*asper*).

2276. *Hexagrammos decagrammus* (Pallas). *Rock-trout*; *Boregat*; *Bodieron*.

North Pacific, from Point Conception to southern Alaska.

*Labrax decagrammus* Pallas, *Mém. Ac. Petersb.*, II, 1810, 386, pl. 22, fig. 2, Elias Bay.

2277. *Hexagrammos scaber* Bean.

Coast of Alaska.

*Hexagrammus scaber* Bean, *Proc. U. S. Nat. Mus.* 1881, 154, coast of Alaska.

2278. *Hexagrammos hexagrammus* Pallas. *Starling*. STELLER

Pacific Coast of United States, from Unalaska to San Francisco.

*Labrax hexagrammus* Pallas, *Mém. Ac. Petersb.*, II, 395, pl. 23, fig. 3, 1810, Kamchatka.

2279. *Hexagrammos ordinatus* (Cope).

Coast of Alaska.

*Chirus ordinatus* Cope, *Proc. Amer. Philos. Soc. Phila.* 1873, 28, Unalaska.

2280. *Hexagrammos asper* Steller. *Red Rock-trout*. PT ROCK-TROUT

Alaska to Monterey.

*Hexagrammos asper* Steller, in Tilesius, *Act. Ac. Petrop.*, II, 340, 1810, Port Peter and Paul, Kamchatka.

2281. *Hexagrammos octogrammus* (Pallas).

About Kamchatka and Aleutian Islands.

*Labrax octogrammus* Pallas, *Zoogr. Rosso-Asiat.*, III, 283, 1811, Kamchatka and Aleutian Islands; doubtful species.

= octogrammus

= asper. = Blatter

= octogrammus

20 11 11 11

= Hexagrammos.

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**Genus 696. GRAMMATOPLEURUS Gill***Grammatopleurus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 166 (*lagocephalus*).**2282. *Grammatopleurus lagocephalus* (Pallas).**

Kuril Islands.

*Labrax lagocephalus* Pallas, Mém. Ac. Petersb., II, 384, 1810, Kuril Islands; doubtful species.**Genus 697. OPHIODON Girard.***Ophiodon* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 133 (*elongatus*).**2283. *Ophiodon elongatus* Girard. *Cultus-cod*; *Blue-cod*; *Buffalo-cod*; *Ling*.**

Pacific Coast from Alaska to Santa Barbara.

*Ophiodon elongatus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 133, San Francisco.**Genus 698. ZANIOLEPIS Girard.***Zaniolepis* Girard, Proc. Ac. Nat. Sci. Phila. 1857, 202 (*latipinnis*).**2284. *Zaniolepis latipinnis* Girard.**

Coast of California, from San Francisco northward.

*Zaniolepis latipinnis* Girard, Proc. Ac. Nat. Sci. Phila. 1857, 202, Fort Steilacoom, Puget Sound.**2285. *Zaniolepis frenatus* Eigenmann.**

Shore banks of southern California.

*Zaniolepis frenatus* Eigenmann, West American Scientist, November 9, 1889, 10, Cortez Banks, off San Diego.**Genus 699. OXYLEBIUS Gill***Oxylebius* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 277 (*pictus*).**2286. *Oxylebius pictus* Gill.**

From Monterey northward to Puget Sound.

*Oxylebius pictus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 277, California, no definite locality given.**Genus 700. ERILEPIS Gill.***Erilepis* Gill, Science, January 26, 1894, 54 (*zonifer*).**2287. *Erilepis zonifer* (Lockington).**

Monterey Bay, California.

*Myriolepis zonifer* Lockington, Proc. U. S. Nat. Mus. 1880, 248, Monterey Bay.**Genus 701. ANOPILOPOMA Ayres.***Anoplopoma* Ayres, Proc. Cal. Ac. Sci. 1859, 27 (*merlangus* = *fimbria*).**2288. *Anoplopoma fimbria* (Pallas). *Beshow*; *Coal-fish*. *Skil*.**

Monterey to Alaska.

*Gadus fimbria* Pallas, Zoogr. Rosso-Asiat., III, 200, 1811, no definite locality, probably the Aleutian Islands.**CLXXX. Family COTTIDÆ. The Sculpins.****Genus 702. JORDANIA Starks.***Jordania* Starks, Proc. Ac. Nat. Sci. Phila. 1895, 410 (*zonope*).**2289. *Jordania zonope* Starks.**

Puget Sound.

*Jordania zonope* Starks, Proc. Ac. Nat. Sci. Phila. 1895, 410, Port Orchard, Puget Sound.**Genus 703. PARICELINUS Eigenmann & Eigenmann.***Paricelinus* Eigenmann & Eigenmann, West American Scientist, November 8, 1889, 131 (*hopliticus*).**2290. *Paricelinus hopliticus* Eigenmann & Eigenmann.**

Cortez Banks, off San Diego, California.

*Paricelinus hopliticus* Eigenmann & Eigenmann, West American Scientist, 131, Cortez Banks, California.



2291. *Paricelinus thoburni* Gilbert.

Coast of Oregon.

*Paricelinus thoburni* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 432, pl. 30, fig. 2, Albatross Station 3350, on coast of Oregon, in 75 fathoms.

Genus 704. *SCORPÆNICHTHYS* Girard.

*Scorpenichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 131 (*marmoratus*).

2292. *Scorpenichthys marmoratus* (Ayres). *Cubersones*.

Pacific Coast of America from Puget Sound to San Diego.

*Hemitripterus marmoratus* Ayres, Proc. Cal. Ac. Sci. 1854, 4, San Francisco.

Genus 705. *CHITONOTUS* Lockington.

*Chitonotus* Lockington, Proc. U. S. Nat. Mus. 1881, 141 (*megacephalus*).

2293. *Chitonotus pugetensis* (Steindachner).

Puget Sound.

*Artedius pugetensis* Steindachner, Ichth. Beitr., v, 183, pl. 14, fig. 2, 1876, Puget Sound.

Genus 706. *TARANDICHTHYS* Jordan & Evermann.

*Tarandichthys* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 225 (*filamentosus*).

2294. *Tarandichthys cavifrons* (Gilbert).

Coast of southern California.

*Icelinus cavifrons* Gilbert, Proc. U. S. Nat. Mus. 1890, 83, off Santa Barbara Islands, at Albatross Stations 2907 and 2945, in 44 and 30 fathoms.

2295. *Tarandichthys filamentosus* (Gilbert).

Coast of southern California.

*Icelinus filamentosus* Gilbert, Proc. U. S. Nat. Mus. 1890, 85, off Santa Barbara Islands, at Albatross Stations 2893 and 2950, in 145 and 55 fathoms.

2296. *Tarandichthys tenuis* (Gilbert).

Coast of southern California.

*Icelinus tenuis* Gilbert, Proc. U. S. Nat. Mus. 1890, 86, off Santa Barbara Islands, at Albatross Stations 2893, 2846, and others, in 45 to 150 fathoms.

Genus 707. *ICELINUS* Jordan.

*Icelinus* Jordan, Cat. Fish. N. A., 110, 1885 (*quadriseriatus*).

2297. *Icelinus fimbriatus* Gilbert.

Southern California.

*Icelinus fimbriatus* Gilbert, Proc. U. S. Nat. Mus. 1890, 87, off Santa Barbara Islands, at Albatross Stations 2893 and 2975, in 145 and 36 fathoms.

2298. *Icelinus oculatus* Gilbert.

Southern California.

*Icelinus oculatus* Gilbert, Proc. U. S. Nat. Mus. 1890, 87, off Santa Barbara Islands, at Albatross Station 2935, in 124 fathoms.

2299. *Icelinus borealis* Gilbert.

Coast of Alaska, north and south of Aleutian Islands, and in Bristol Bay.

*Icelinus borealis* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 415, pl. 25, Aleutian Islands and Bristol Bay, at Albatross Stations 3213, 3214, and others, in 11 to 121 fathoms.

2300. *Icelinus quadriseriatus* (Lockington)

Off San Francisco, between Point Reyes and Golden Gate.

*Artedius quadriseriatus* Lockington, Proc. U. S. Nat. Mus. 1879, 330, off San Francisco.

Genus 708. *ASTROLYTES* Jordan & Starks.

*Astrolutes* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 807 (*fenestralis*).

2301. *Astrolutes notospilotus* (Girard).

Coast of California from Straits of Fuca southward; abundant at Santa Barbara and Puget Sound.

*Artedius notospilotus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 134, Tomales Bay, California.

ALCIDEA J+E.  
A. tuberculata

Orthonotus tricolor Starks & Mans  
Proc. Univ. Cal.  
Paz San Diego & M.

Enophrys

Gilbert - Proc  
Monterey

Ruscus Starks & Mans }  
R. saburrae .

*Arctinus asperulus*

Slacks  
Puget Sound

*Axyrius harringtoni*

Slacks  
Puget Sound.

*Stelgites elegans* J. G.

*Architea plumarius* J. G.

*Arenarchilus* Doyle Miller. N. Maine

**2302. *Astrolytes fenestralis* (Jordan & Gilbert).**

Puget Sound.

*Artedius fenestralis* Jordan & Gilbert, Proc. U. S. N. M. 1882, 578, Puget Sound.**Genus 709. ARTEDIUS Girard.***Artedius* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 134 (*lateralis*).**2303. *Artedius lateralis* (Girard).**

Pacific Coast of North America, from Puget Sound to San Luis Obispo.

*Scorpenichthys lateralis* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 145, San Luis Obispo, California.**Genus 710. ARTEDIELLUS Jordan.***Artediellus* Jordan, Cat. Fish. N. A., 110, 1885 (*uncinatus*).**2304. *Artediellus uncinatus* (Reinhardt).**

Arctic Europe west to Greenland.

*Cottus uncinatus* Reinhardt, Vid. Selsk. Natur. Math. Afh. 1833, 44.**2305. *Artediellus atlanticus* Jordan & Evermann.**

Labrador to Cape Cod.

*Artediellus atlanticus* Jordan & Evermann, Fishes North and Middle America, 1896, Massachusetts Bay.**2306. *Artediellus pacificus* Gilbert.**

Coast of Alaska; in Bristol Bay, south of Sannak Island, and north of Unalaska.

*Artediellus pacificus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 416, Unalaska, Sannak, Bristol Bay, at Albatross Station 3216, south of Sannak Island, many other stations in Bristol Bay, and station 3323 north of Unalaska, in 8 to 61 fathoms.**Genus 711. RUSCARIUS Jordan & Starks.***Ruscarius* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 805 (*meanyi*).**2307. *Ruscarius meanyi* Jordan & Starks.**

Puget Sound, at Port Orchard, near Seattle.

*Ruscarius meanyi* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 805, pl. 80, Port Orchard, Puget Sound.**Genus 712. RASTRINUS Jordan & Evermann.***Rastrinus* Jordan & Evermann, new genus (*scutiger*).**2308. *Rastrinus scutiger* (Bean).**

South of the Alaskan Peninsula.

*Icelus scutiger* Bean, Proc. U. S. Nat. Mus. 1890, 41, Trinity Islands, Alaska, at Albatross Station 2853, in 159 fathoms.**Genus 713. ICELUS Kroyer.***Icelus* Kroyer, Natur. Tidsskr., I, 253, 1845 (*hamatus*).**2309. *Icelus bicornis* (Reinhardt).**

Arctic seas, circumpolar; Spitzbergen to northern Russia, Finland, Alaska, Greenland, Labrador, and Cape Cod.

*Cottus bicornis* Reinhardt, Vid. Selsk. Natur. og Math. Afh., VIII, LXXV, Greenland.**2310. *Icelus spiniger* Gilbert.**

Coast of Alaska, in the vicinity of Unalaska Island and in Bristol Bay.

*Icelus spiniger* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 406, pl. 24, fig. 1, Bristol Bay and Unalaska, at Albatross Stations 3216, 3223, and many others, in 17 to 121 fathoms.**2311. *Icelus euryops* Bean.**

Bering Sea, off Trinity Islands.

*Icelus euryops* Bean, Proc. U. S. Nat. Mus. 1890, 41, off Trinity Islands, at Albatross Station 2853, in 159 fathoms.**2312. *Icelus vicinalis* Gilbert.**

Bristol Bay, Alaska.

*Icelus vicinalis* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 413, Bristol Bay at Albatross Stations 3324, 3330, 3331, and 3332, in 109 to 406 fathoms.

2313. *Icelus canaliculatus* Gilbert.

Bering Sea, north of Unalaska.

*Icelus canaliculatus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 412, pl. 24, fig. 2, off Unalaska, at Albatross Station 3329, in 309 fathoms.

2314. *Icelus australis* Eigenmann & Eigenmann.

Cortez Banks, off San Diego.

*Icelus australis* Eigenmann & Eigenmann, West Amer. Sci. 1889, 131, Cortez Banks, California.

Genus 714. *RADULINUS* Gilbert.

*Radulinus* Gilbert, Proc. U. S. Nat. Mus. 1890, 88 (*asprellus*).

2315. *Radulinus asprellus* Gilbert.

Coast of Oregon and Washington, and in Puget Sound.

*Radulinus asprellus* Gilbert, Proc. U. S. Nat. Mus. 1890, 88, off Oregon and Washington, at Albatross Stations 3046, 3057, and others, in 43 to 77 fathoms.

Genus 715. *TRIGLOPS* Reinhardt.

*Triglops* Reinhardt, Vid. Selsk. Natur. Math. Afh., v, LII (*pingeli*).

2316. *Triglops xenostethus* Gilbert.

Bering Sea, north of Unalaska Island.

*Triglops xenostethus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 429, pl. 29, fig. 2, north of Unalaska, at Albatross Station 3220, in 34 fathoms.

2317. *Triglops pingeli* Reinhardt.

North Atlantic, from Spitzbergen and western Norway to Greenland and south to Cape Cod and Christiansund.

*Triglops pingeli* Reinhardt, Vid. Selsk. Natur., v, LII.

2318. *Triglops beani* Gilbert.

Alaska, both north and south of the Aleutian Islands and in Bristol Bay.

*Triglops beani* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 426, pl. 28, fig. 1, Aleutian Islands and Bristol Bay, at Albatross Stations 3214, 3217, and many others, in 7½ to 42 fathoms.

2319. *Triglops scepticus* Gilbert.

Aleutian Islands, south of Sannak and north of Unalaska Island.

*Triglops scepticus* Gilbert, Rept. U. S. Fish. Com. 1893 (1896), 428, pl. 28, fig. 2, Aleutian Islands, at Albatross Stations 3215, 3222, and others, in 43 to 138 fathoms.

Genus 716. *PRIONISTIUS* Bean.

*Prionistius* Bean, Proc. U. S. Nat. Mus. 1883, 355 (*macellus*).

2320. *Prionistius macellus* Bean.

British Columbia, in Carter Bay.

*Prionistius macellus* Bean, Proc. U. S. Nat. Mus. 1883, 355, Carter Bay, British Columbia.

Genus 717. *ELANURA* Gilbert.

*Elanura* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 429 (*forficata*).

2321. *Elanura forficata* Gilbert.

Aleutian Islands, south of Sannak and north of Unimak Island.

*Elanura forficata* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 430, pl. 30, fig. 1, Aleutian Islands, at Albatross Stations 3213, 3214, and 3222, in 38 to 50 fathoms.

Genus 718. *MELLETER* Bean.

*Mellertes* Bean, Proc. U. S. Nat. Mus. 1879, 354 (*papilio*).

2322. *Mellertes papilio* Bean.

Aleutian Islands.

*Mellertes papilio* Bean, Proc. U. S. Nat. Mus. 1879, 354, St. Paul Island, Alaska.

~~Adulterator Albert (on the)~~

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Radulius boleoides: Silas  
Monterey.

*Ceratocarpus viridulus*

*Pambolus*



**Genus 719. HEMILEPIDOTUS Cuvier.***Hemilepidotus* Cuvier, Règne Animal, ed. 2, II, 165, 1829 (*hemilepidotus*).**2323. Hemilepidotus hemilepidotus (Tilesius).**

Alaska to San Francisco; abundant in Puget Sound.

*Cottus hemilepidotus* Tilesius, Mém. Ac. Pétersb., III, 1810, 262, Sea of Okhotsk.**2324. Hemilepidotus jordani Bean.**

Alaska; Unalaska.

*Hemilepidotus jordani* Bean, Proc. U. S. Nat. Mus. 1881, 153, Unalaska.**Genus 720. CALYCILEPIDOTUS Ayres.***Calycilepidotus* Ayres, Proc. Cal. Ac. Sci., I, 1855, 76 (*epinosus*).**2325. Calycilepidotus spinosus Ayres.**

Coast of California; known only from about Monterey and San Francisco.

*Calycilepidotus spinosus* Ayres, Proc. Cal. Ac. Sci., I, 1855, 76, San Francisco.**Genus 721. ENOPHRYS Swainson.***Enophrys* Swainson, Classen. Fish., II, 271, 1839 (*claviger*).**Subgenus ASPICOTTUS Girard.***Aspicottus* Girard, Proc. Ac. Nat. Sci. Phila., 1854, 130 (*bison*).**2326. Enophrys bison (Girard).**

San Francisco to Alaska; abundant about Puget Sound.

*Aspicottus bison* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 130, Fort Steilacoom.**Subgenus ENOPHRYS Swainson.****2327. Enophrys claviger (Cuvier & Valenciennes).**

Bering Sea.

*Cottus claviger* Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 195, 1829, Kamchatka.**Genus 722. CERATOCOTTUS Gill.***Ceratocottus* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 165 (*diceraus*).**2328. Ceratocottus diceraus (Pallas).**

Alaska and Kamchatka.

*Cottus diceraus* Pallas, Nov. Act. Petropol., 1783, 354, pl. 10, fig. 7, Petropaulski, Kamchatka.**Genus 723. COTTUS (Artedi) Linnaeus. Miller's Thumbs.***Cottus* Linnaeus, Syst. Nat., ed. x, 264, 1758 (*gobio*).**Subgenus PEGEDICTIS Rafinesque.***Pegedictis* Rafinesque, Ichth. Ohiensis, 85, 1820 (*ictalops*).**2329. Cottus asper Richardson. Prickly Bullhead.**

Streams of the Cascade Range, from Vancouver Island to Oregon.

*Cottus asper* Richardson, Fauna Bor.-Amer., Fish., 295, 1836, Columbia River at Fort Vancouver.**2330. Cottus gulosus (Girard).**

Streams of the Coast Range in California, south to Point Conception.

*Cottopsis gulosus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 129, San Mateo Creek and San Joaquin River, California.**2331. Cottus rhotheus (Rosa Smith).**

Hangman Creek, Tekoa, Washington, and elsewhere in Columbia River basin.

*Uranidea rhothea* Rosa Smith, Proc. U. S. Nat. Mus. 1882, 347, Spokane Falls, Washington.**2332. Cottus shasta Jordan & Starks.**

Upper Sacramento Basin, about Mount Shasta.

*Cottus shasta* Jordan & Starks, Proc. Cal. Ac. Sci. 1896, 224, McCloud River, Baird, Shasta County, California.



**2333. *Cottus semiscaber* (Cope). *Rocky Mountain Bullhead.***

Rocky Mountain region in clear streams on both slopes; abundant in Colorado, northern New Mexico, Wyoming, Montana, Idaho, Utah, eastern Washington, and Oregon.

*Cottopsis semiscaber* Cope, Hayden Surv. Mout., 1871, 476, Fort Hall, Idaho.

**2334. *Cottus punctulatus* (Gill).**

Headwaters of Green River, Wyoming.

*Potamocottus punctulatus* Gill, Proc. Acad. Nat. Hist., viii, 1861, 40, Bridger Pass, Wyoming.

**2335. *Cottus lotalops* (Rafinesque). *Miller's Thumb; Blob; Mugle-jaw; Bullhead; Spring-fish.***

Middle and Northern States, east of the Dakotas and Nebraska, southward along the Alleghanies to North Carolina and northern Alabama.

*Pogonichthys lotalops* Rafinesque, Ichth. Obiensis, 85, 1820, spring near Lexington, Kentucky.

Subgenus TAURIDEA Jordan & Evermann.

*Tauridea* Jordan & Evermann, Fishes N. and M. Amer., 1896 (ricei).

**2336. *Cottus ricei* (Nelson).**

Lake Michigan, near Evanston, Illinois.

*Cottopsis ricei* Nelson, Bull. Ill. Mus. Nat. Hist., 40, 1876, Lake Michigan at Evanston.

Subgenus COTTUS (Artedii) Linnaeus.

**2337. *Cottus onychus* Eigenmann & Eigenmann.**

Saskatchewan Basin.

*Cottus onychus* Eigenmann & Eigenmann, Am. Nat., November, 1892, 963. Bow River, at Calgary, a tributary of the South Saskatchewan, Alberta Territory.

**2338. *Cottus pollicaris* (Jordan & Gilbert).**

Lake Michigan.

*Ursinidea pollicaris* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1893, 222, Lake Michigan, off Racine, Wisconsin.

**2339. *Cottus cognatus* Richardson. *Great Bear Lake Bullhead.***

Great Bear Lake, British America.

*Cottus cognatus* Richardson, Fauna Bor.-Amer., iii, 40, 1836, Great Bear Lake.

**2340. *Cottus perplexus* Gilbert & Evermann.**

Skookumchuck and Newankum rivers, near Chehalis, Washington.

*Cottus perplexus* Gilbert & Evermann, Bull. U. S. Fish Com. 1894, 202, pl. 20, fig. 1, Skookumchuck River, near Chehalis, Washington.

**2341. *Cottus aleuticus* Gilbert.**

Unalaska, in small stream passing through the village of Unalaska; Departure Bay, Vancouver Island.

*Cottus aleuticus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 418, streams of Unalaska; also in Departure Bay, Vancouver Island.

**2342. *Cottus minutus* Pallas.**

Island of Talek, near Taniak, Sea of Okhotsk.

*Cottus minutus* Pallas, Zoogr. Rosso-Asiat., iii, 145, 1811, Talek Island, Sea of Okhotsk.

**2343. *Cottus beldingi* Eigenmann & Eigenmann.**

Streams of Columbia River basin, south to Lake Lahontan; abundant east of the Cascades and in Lake Tahoe.

*Cottus beldingi* Eigenmann & Eigenmann, Am. Nat., xxv, 1891, 1132, Lake Tahoe.

**2344. *Cottus philonips* Eigenmann & Eigenmann.**

Columbia River basin at Field, British Columbia, and in Idaho.

*Cottus philonips* Eigenmann & Eigenmann, Am. Nat., xxvi, 1892, 963, Kicking Horse River, Field, British Columbia.

*Colletes icatops* is a bequeen  
member of *Colletes* and *Colletes*,  
mostly the first.

= richardsoni

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*Uranidea Venus German.*

*MYOCEPHALUS Steller.*

**2345. *Cottus annæ* Jordan & Starks.**

Eagle River, a tributary of Grand River, Colorado, Colorado River basin.  
*Cottus annæ* Jordan & Starks, Proc. Cal. Ac. Sci. 1896, 223, Eagle River at Gypsum, Colorado.

**2346. *Cottus spilotos* (Cope).**

Grand Rapids, on the Grand River, which flows into Lake Michigan.  
*Uranidea spilota* Cope, Proc. Ac. Nat. Sci. Phila. 1865, 182, Grand River at Grand Rapids, Michigan.

**2347. *Cottus leiopomus* Gilbert & Evermann.**

Wood River, Shoshone, Idaho.  
*Cottus leiopomus* Gilbert & Evermann, Bull. U. S. Fish Com. 1894, 203, pl. 20, fig. 2, Wood River, Shoshone, Idaho.

**Genus 724. URANIDEA DeKay.**= *Cottus* 1

*Uranidea* DeKay, New York Fauna: Fishes, 61, 1842 (*quiescens* = *gracilis*).

**2348. *Uranidea bendirei* (Bean).**

Walla Walla, Washington; Rattlesnake Creek near Camp Harney, Oregon, and Goose Creek near Meadows, Idaho.  
*Potamacottus bendirei* Bean, Proc. U. S. Nat. Mus. 1881, 27, Rattlesnake Creek near Camp Harney, Oregon.

**2349. *Uranidea marginata* Bean.**

Tributaries of Walla Walla River, Washington.  
*Uranidea marginata* Bean, Proc. U. S. Nat. Mus. 1881, 26, Walla Walla, Washington.

**2350. *Uranidea franklini* (Agassiz).**

Lake Superior.  
*Cottus franklini* Agassiz, Lake Superior, 303, 1850, north and east shores of Lake Superior.

**2351. *Uranidea kumlienii* Hoy.**

Lake Michigan, in deep water.  
*Uranidea kumlienii* Hoy, in Nelson, Bull. Ill. Mus. Nat. Hist., vol. 1, No. 1, 41, 1876, Lake Michigan, in deep water.

**2352. *Uranidea gracilis* (Heckel).**

Streams of New England and New York; recorded from tributaries of the Connecticut, Lake Champlain, Hudson, Delaware, and Susquehanna.  
*Cottus gracilis* Heckel, Ann. Wien. Mus., II, 1840, 148, New England.

**2353. *Uranidea formosa* (Girard).**

Lake Ontario, in deep water.  
*Cottus formosus* Girard, Monogr. Cott., 58, 1850, Lake Ontario, off Oswego, in stomach of *Lota maculosa*.

**2354. *Uranidea hoyi* Putnam.**

Lake Michigan, in deep water.  
*Uranidea hoyi* Putnam, in Nelson, Bull. Ill. Mus. Nat. Hist., vol. 1, No. 1, 41, 1876, Lake Michigan, in deep water.

**Genus 725. ARGYROCOTTUS Herzenstein.**

*Argyrocottus* Herzenstein, Melanges Biol. Ac. Imp. Sci., XIII, 1892, 219, St. Petersburg (*zanderi*).

**2355. *Argyrocottus zanderi* Herzenstein.**

Korsakow, Sakhalin.  
*Argyrocottus zanderi* Herzenstein, Melanges Biol. Ac. Imp. Sci., XIII, 1892, 219, Korsakow, Sakhalin.

**Genus 726. ACANTHOCOTTUS Girard. Great Sculpins.**

*Acanthocottus* Girard, Proc. Bost. Soc. Nat. Hist., III, 1849, 185 (*graciloides*).

**2356. *Acanthocottus æneus* (Mitchill). Grubby.**

Coast of southern New England and New York.  
*Cottus æneus* Mitchill, Trans. Lit. Phil. Soc. N. Y., I, 1815, 380, New York.

**2357. *Acanthocottus octodecimspinosus* (Mitchill). Common Sculpin; Eighteen-spined Sculpin.**

Atlantic Coast south to Virginia; common, northward.

*Cottus octodecimspinosus* Mitchill, Trans. Lit. Phil. Soc. N. Y., 1, 1815, 380, New York.**2358. *Acanthocottus platycephalus* (Pallas).**

Kamchatka

*Cottus platycephalus* Pallas, Zoogr. Rosso-Asiat., III, 135, 1811, Kamchatka; after Steller.**2359. *Acanthocottus scorpioides* (Fabricius).**

Arctic regions of America, Greenland to Siberia

*Cottus scorpioides* Fabricius, Fauna Gronl., 157, 1780, Greenland.**2360. *Acanthocottus scorpius* (Linnaeus). European Sculpin.**

Northern Europe and Arctic regions, not common on our coasts; recorded by Dr. Lütken from the Baltic, Finland, Spitzbergen, Nova Zembla, coasts of England and northern Asia; also from Eastport, Maine.

*Cottus scorpius* Linnaeus, Syst. Nat., ed. x, 285, 1758, in Atlantic Ocean off Europe.**2361. *Acanthocottus groenlandicus* (Cuvier & Valenciennes). Daddy Sculpin.**

New York to Greenland; according to Fabricius it is abundant in all the bays and inlets of Greenland.

*Cottus groenlandicus* Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 156, 1829, no locality given, probably Greenland; after Fabricius.**2362. *Acanthocottus polyacanthocephalus* (Pallas)**

Puget Sound to Alaska; very abundant northward.

*Cottus polyacanthocephalus* Pallas, Zoogr. Rosso-Asiat., III, 133, 1811, no locality.**2363. *Acanthocottus humilis* (Bean).**

Chamisso Island, near Bering Straits.

*Cottus humilis* Bean, Proc. U. S. Nat. Mus., IV, 1881, 149, Chamisso Island, Bering Straits. = Jack.**2364. *Acanthocottus jaok* (Cuvier & Valenciennes).**

Kamchatka.

*Cottus jaok* Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 172, 1829, Kamchatka.**Subgenus BOREOCOTTUS GILL.***Boreocottus* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 166 (axillaris). ?**2365. *Acanthocottus verrucosus* (Bean).**

Plover Bay, Siberia, near Bering Straits.

*Cottus verrucosus* Bean, Proc. U. S. Nat. Mus., IV, 1881, 152, Plover Bay, Siberia.**2366. *Acanthocottus niger* (Bean).**

St. Paul Island, Bering Sea.

*Cottus niger* Bean, Proc. U. S. N. M., IV, 1881, 151, St. Paul Island, Bering Sea.**2367. *Acanthocottus axillaris* (Gill).**

Bering Straits.

*Boreocottus axillaris* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 166, Bering Straits.**2368. *Acanthocottus polaris* (Sabine).**

East side of the peninsula of Boothia.

*Cottus polaris* Sabine, Appendix Parry's First Voyage, CCXIII, 1819, north Georgia; not recognized by recent writers, the generic relations uncertain; Lütken compares it with *Icelus bicornis*, but it must be different.**2369. *Acanthocottus quadrifilis* (Gill).**

Bering Straits.

*Porocottus quadrifilis* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 166, Bering Straits.**2370. *Acanthocottus sellaris* Gilbert.**

Bristol Bay, Alaska.

*Acanthocottus sellaris* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 419, Bristol Bay, at Albatross Stations 3229, 3231, and others, in 5 to 17 fathoms.*Acanthocottus sellaris* Bean

MYOXOEPHALUS

myoxocephalus

STELLERI Tilesius  
Kamchatka.  
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nivosus Herzens

*Spilichus bogorovi* Jordan & Gilbert  
Bogor Island.

*Oncocephalus* *supracornis*

*Megalocottus* *laticeps*  
*platycephalus* = *macrotis*  
*taeniopleura*

*T. ontariensis* Jordan & Thompson  
Proc. U.S. N. M., 1910

**Genus 727. ZESTICELUS** \* Jordan & Evermann.*Zesticelus* Jordan & Evermann, new genus (*profundorum*).**2371. Zesticelus profundorum** (Gilbert).

Bering Sea, north of Unalaska.

*Acanthocottus profundorum* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 423, pl. 26, fig. 1, Bering Sea, north of Unalaska, at Albatross Station 3329, in 399 fathoms.**Genus 728. ONCOCOTTUS** Gill.*= Megaxocephalus**Oncocottus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 13 (*quadricornis*).**2372. Oncocottus labradoricus** (Girard).*= hexacornus Rich.*

York Factory, Hudson Bay.

*Acanthocottus labradoricus* Girard, Bost. Jour. Nat. Hist., vi, 1850, 247, York Factory, Hudson Bay.**2373. Oncocottus quadricornis** (Linnæus).

Arctic America to Baltic Sea, chiefly northward; abundant in eastern Baltic and in Lakes Ladoga and Onega; north to White Sea and Nova Zembla; rare in England and eastern Greenland; unknown in western Greenland.

*Cottus quadricornis* Linnæus, Syst. Nat., ed. x, 264, 1758, Baltic Sea.**2374. ~~Oncocottus~~ <sup>Megacottus</sup> laticeps** (Gilbert).*= M. platycephalus Pallas*

Alaska, from Nushagak River near its mouth; one from Herendeen Bay on the northern side of Alaska Peninsula.

*Acanthocottus laticeps* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 422, pls. 26 and 27, Nushagak River and Herendeen Bay, Alaska.**Genus 729. TRIGLOPSIS** Girard.*Triglopsis* Girard, Proc. Bost. Soc. Nat. Hist., iv, 1851, 18 (*thompsoni*).**2375. Triglopsis thompsoni** Girard.

Deep waters of Great Lakes; known from Lakes Michigan and Ontario.

*Triglopsis thompsoni* Girard, Proc. Bost. Soc. Nat. Hist., iv, 1851, 19, Lake Ontario, off Oswego, New York.**Genus 730. DASYCOTTUS** Bean.*Dasycottus* Bean, Proc. U. S. Nat. Mus. 1890, 42 (*setiger*).**2376. Dasycottus setiger** Bean.

North Pacific, off Sitkalidak Island; Puget Sound.

*Dasycottus setiger* Bean, Proc. U. S. Nat. Mus. 1890, 42, off Sitkalidak Island, 57° N., 153° 18' W., at Albatross Station 2855, in 69 fathoms.**Genus 731. COTTUNCULUS** Collett.*Cottunculus* Collet, Norges Fiske, 20, 1875 (*microps*).**2377. Cottunculus microps** Collett.

Deep water, off coasts of Norway and Rhode Island.

*Cottunculus microps* Collett, Norges Fiske, 20, pl. i, figs. 1-3, 1875, Hasvig, near Hammerfest, Norway, in 200 fathoms.**2378. Cottunculus thomsonii** (Günther).

North Atlantic, in deep water.

*Cottus thomsonii* Günther, Proc. Royal Soc. Edinburgh, xi, 1882, 679, Farøe Channel, in 535 fathoms.**Genus 732. MALACOCOTTUS** Bean.*Malacocottus* Bean, Proc. U. S. Nat. Mus. 1890, 42 (*zonurus*).**2379. Malacocottus zonurus** Bean.

Coast of Alaska, off Trinity Islands.

*Malacocottus zonurus* Bean, Proc. U. S. Nat. Mus. 1890, 43, off Trinity Islands, Alaska, 56° N., 154° W., at Albatross Station 2853, in 159 fathoms.\* Distinguished from *Acanthocottus* by its cavernous skeleton; associated with its deep-water habitat.



**Genus 733. GYMNOCANTHUS Swainson.***Gymnocanthus* Swainson, Classen. Fishes, etc., 271, 1839 (*ventralis*).**2380. *Gymnocanthus pistilliger* (Pallas).**

Coasts of Alaska; taken abundantly in Bristol Bay.

*Cottus pistilliger* Pallas, Zoogr. Rosso-Asiat., iii, 148, 1811, Unalaska Island.**2381. *Gymnocanthus tricuspis* (Reinhardt).**

Arctic seas, south to Norway and Labrador; not very common on our coasts.

*Cottus tricuspis* Reinhardt, Vidensk. Selak. Nat. Math., v, iii.**2382. *Gymnocanthus galeatus* Bean.**

Aleutian Islands.

*Gymnocanthus galeatus* Bean, Proc. U. S. Nat. Mus. 1861, 153, Unalaska.**Genus 734. LELOCOTTUS Girard.***Leiocottus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 133 (*hirundo*).**2383. *Leiocottus hirundo* Girard.**

Santa Barbara Islands; extremely local.

*Leiocottus hirundo* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 133, San Miguel Island, near Santa Barbara, California.**Genus 735. LEPTOCOTTUS Girard.***Leptocottus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 130 (*armatus*).**2384. *Leptocottus armatus* Girard.**

Pacific Coast, from Kodiak to San Diego.

*Leptocottus armatus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 131, Cape Flattery, Fort Steilacoom, Shoalwater Bay, Humboldt Bay, San Francisco, Monterey, San Pedro, Fort Point, San Diego, and Tomales Bay.**Genus 736. CLINOCOTTUS Gill.***Clinocottus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 166 (*analis*).**2385. *Clinocottus analis* (Girard).**

Coast of California, from Monterey to Lower California.

*Oligocottus analis* Girard, Proc. Ac. Nat. Sci. Phila. 1857, 201, Monterey.**Genus 737. OLIGOCOTTUS Girard.***Oligocottus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 133 (*maculosus*).**2386. *Oligocottus maculosus* Girard. *Johann.***

Pacific Coast, from Cape Mendocino to Point Conception.

*Oligocottus maculosus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 153, Tomales Bay, San Francisco.**2387. *Oligocottus borealis* Jordan & Snyder.**

Pacific Coast of America from Sitka to Cape Mendocino.

*Oligocottus borealis* Jordan & Snyder, Proc. Cal. Ac. Sci. 1896, 225, Neah Bay and Seattle, Washington.**2388. *Oligocottus acuticeps* Gilbert.**

Alaska to Cape Flattery; Departure Bay, Vancouver Island.

*Oligocottus acuticeps* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 432, Unalaska.**Genus 738. BLENNICOTTUS Gill.***Blennicottus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 166 (*globiceps*).**2389. *Blennicottus embryum* Jordan & Starks.**

Pacific Coast of America, from Puget Sound to Monterey, California.

*Oligocottus embryum* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 808, pl. 82, Neah Bay, Washington.**2390. *Blennicottus globiceps* (Girard).**

Pacific Coast, from Coronados Island northward to Cape Mendocino.

*Oligocottus globiceps* Girard, U. S. Pac. R. R. Surv., Fish., 58, 1858, South Farallones.



Nauchthage    prebilarins  
St Paul.

**2390a. *Blennicottus globiceps bryosus* Jordan & Starks.**

Puget Sound.

*Blennicottus globiceps bryosus* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 808, Neah Bay, Washington.**Genus 739. HISTIOCOTTUS Gill.***Histiocottus* Gill, Proc. U. S. Nat. Mus. 1888, 573 (*bilobus*).**2391. *Histiocottus bilobus* (Cuvier & Valenciennes).**

Coast of Alaska and Kamchatka.

*Blepsias bilobus* Cuvier & Valenciennes, Hist. Nat. Poiss., iv, 379, 1829, no locality; somewhere in Kamchatka.**Genus 740. BLEPSIAS Cuvier.***Blepsias* Cuvier, Règne Animal, ed. 2, ii, 167, 1829 (*cirrhus*).**2392. *Blepsias cirrhosus* (Pallas).**

Alaska to San Francisco; common at Unalaska, but not often south of Puget Sound.

*Trachinus cirrhosus* Pallas, Zoogr. Rosso-Asiat., iii, 237, 1811, Bering Sea.**Genus 741. NAUTICHTHYS Girard.***Nautichthys* Girard, Pac. R. R. Surv., Fishes, 74, 1858 (*oculofasciatus*).**2393. *Nautichthys oculofasciatus* (Girard).**

Pacific Coast, Alaska to San Francisco, chiefly northward; common in Bristol Bay and about Unalaska.

*Blepsias oculofasciatus* Girard, Proc. Ac. Nat. Sci. Phila. 1857, 202, Fort Steilacoom, Washington.**Genus 742. ULCA Jordan & Evermann.***Ulca* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 237 (*marmoratus*).**2394. *Ulca marmorata* (Bean).**

Alaska, off Sitkalidak Island.

*Hemitripteris marmoratus* Bean, Proc. U. S. Nat. Mus. 1890, 43, off Sitkalidak Island.**Genus 743. HEMITRIPTERUS Cuvier.***Hemitripteris* Cuvier, Règne Animal, ed. 2, ii, 164, 1829 (*americanus*).**2395. *Hemitripteris americanus* (Gmelin). *Sea-raven*.**

Atlantic Coast of America, chiefly northward, from Cape Cod to Labrador.

*Scorpena americana* Gmelin, Syst. Nat., ed. xiv, 1220, 1788, no locality given.**2396. *Hemitripteris cavifrons* Lockington.**

Coast of Alaska.

*Hemitripteris cavifrons* Lockington, Proc. Ac. Nat. Sci. Phila. 1880, 233, Kodiak Island, Alaska.**Genus 744. SYNCHIRUS Bean.***Synchirus* Bean, Proc. U. S. Nat. Mus., xii, 1889, 641 (*gilli*).**2397. *Synchirus gilli* Bean.**

Barclay Sound, British Columbia.

*Synchirus gilli* Bean, Proc. U. S. Nat. Mus., xii, 1889, 642, Barclay Sound.**Genus 745. ASCELICHTHYS Jordan & Gilbert.***Ascelichthys* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 264 (*rhodorus*).**2398. *Ascelichthys rhodorus* Jordan & Gilbert.**

Pacific Coast from Sitka to Cape Mendocino; abundant in Neah Bay.

*Ascelichthys rhodorus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 264, Waadda Island, Neah Bay, near Cape Flattery.**Genus 746. PSYCHROLUTES Günther.***Psychrolutes* Günther, Cat., iii, 516, 1861 (*paradoxus*).**2399. *Psychrolutes paradoxus* Günther.**

Gulf of Georgia, Vancouver Island.

*Psychrolutes paradoxus* Günther, Cat., iii, 516, 1861, Gulf of Georgia.

Genus 747. *GILBERTINA* Jordan & Starks.

*Gilbertina* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 811 (*sigolutes*).

2400. *Gilbertina sigolutes* Jordan & Starks.

Puget Sound.

*Gilbertina sigolutes* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 811, pl. 84, Port Orchard, near Seattle.

Family CLXXXI. RHAMPHOCOTTIDÆ.

Genus 748. *RHAMPHOCOTTUS* Gunther.

*Rhamphocottus* Günther, Ann. Mag. Nat. Hist., xiv, 1874, 370 (*richardsoni*).

2401. *Rhamphocottus richardsoni* Günther.

North Pacific, Alaska to Monterey; not infrequent in Puget Sound.

*Rhamphocottus richardsoni* Günther, Ann. Mag. Nat. Hist., xiv, 1874, 370, Fort Rupert, British America.

Family CLXXXII. AGONIDÆ.

Genus 749. *HIPPOCEPHALUS* Swainson.

*Hippocephalus* Swainson, Nat. Hist. Fishes, etc., ii, 272, 1839 (*superciliatus*).

2402. *Hippocephalus japonicus* (Pallas).

North Pacific; Kuril Islands; Gulf of Patience; Sakhalin Island; Okhotsk Sea.

*Cottus japonicus* Pallas, "Spicilegium Zoologia, vii, 30, pl. 5, figs. 1-3, 1772," Kuril Islands.

Genus 750. *AGONOMALUS* Guichenot.

*Agonomalus* Guichenot, Mém. Soc. Sci. Nat. de Cherbourg, 252, pl. 9, 1866 (*proboscidalis*).

2403. *Agonomalus proboscidalis* (Valenciennes).

Port of the Emperor Nicholas, Gulf of Tartary.

*Aspidophorus proboscidalis* Valenciennes, Comptes Rendus de l'Académie des Sciences, XLVII, 1040, 1858, Gulf of Tartary.

Genus 751. *HYPSAGONUS* Gill.

*Hypsagonus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 259 (*quadricornis*).

2404. *Hypsagonus quadricornis* (Cuvier & Valenciennes).

North Pacific; Kamchatka; Bering Sea and coasts of Alaska south to Bristol Bay and Puget Sound.

*Aspidophorus quadricornis* Cuvier & Valenciennes, Hist. Nat. Poiss., iv, 221, 1829, Kamchatka.

Genus 752. *BRACHYOPSIS* Gill.

*Brachyopsis* Gill, Proc. Ac. Nat. Sci. Phila. xiii, 1861, 167, 259 (*rostratus*).

2405. *Brachyopsis verrucosus* Lockington.

Coast of California, south to San Francisco.

*Brachyopsis verrucosus* Lockington, Proc. U. S. Nat. Mus., iii, May 6, 1880, 60, Drake Bay, near San Francisco.

2406. *Brachyopsis rostratus* (Tilesius).

North Pacific, from Sakhalin, Gulf of Aniva, and the Kuril Islands.

*Agonus rostratus* Tilesius, Mém. Ac. Petersb., iv, pl. 14, 1810, Sakhalin, Gulf of Aniva.

2407. *Brachyopsis dodecædrus* (Tilesius).

North Pacific, Kamchatka, Bristol Bay, coast of Alaska.

*Agonus dodecædrus* Tilesius, Mém. Ac. Petersb., iv, pl. 13, 1810, Kamchatka.

2408. *Brachyopsis segaliensis* (Tilesius).

Island of Sakhalin.

*Syngnathus segaliensis* Tilesius, Mém. Soc. Imp. Nat. de Moscow, ii, 216, pl. 14, 1810, Bay of Patience, Sakhalin Island.

949 Percus Scipoli

WISITZ A. who?  
Vermorus = new genus: with dodecaedron

Pallanus arx Starb.  
Puget Sound.

AGONUS CATAPRACTUS L.  
~~DEAGONUS~~  
Davis Straits W. Coast  
Spec. recd from Dundee.

Podotrichus cristatus . sp.

Podotrichus lucasi  
~~oculus~~

Averuncus sterletus  
Sillb.  
Mendoc.

**Genus 753. STELLERINA\* Cramer.***Stellerina* Cramer, new genus (*xyosternus*).**2409. Stellerina xyosterna (Jordan & Gilbert).**

Coast of California and Oregon.

*Brachyopsis xyosternus* Jordan & Gilbert, Proc. U. S. Nat. Mus., III, July 2, 1888, 152, Santa Cruz, California.**Genus 754. PALLASINA Cramer.***Pallasina* Cramer, Proc. Cal. Ac. Sci. 1895, 815 (*barbatus*).**2410. Pallasina barbata (Steindachner).**

North Pacific, south to Japan.

*Siphagonus barbatus* Steindachner, Ichth. Beitr., v, 140, pl. 5, Sitzb. der K. Ac. der Wiss., LXXIV, July, 1876, Hakodate and Nagasaki, Japan.**Genus 755. LEPTAGONUS Gill.***Leptagonus* Gill, Proc. Ac. Nat. Sci. Phila., XIII, 1861, 167, 259 (*spinosissimus* = *decagonus*).**2411. Leptagonus decagonus (Bloch & Schneider).**

Arctic Ocean, south to Newfoundland and Norway.

*Agonus decagonus* Bloch & Schneider, Syst. Ichth., i, 105, pl. 27, 1801, erroneously recorded from the East Indies, the type from Greenland.**Genus 756. PODOTHECUS Gill.***Podothecus* Gill, Proc. Ac. Nat. Sci. Phila., XIII, 1861, 77, 259 (*peristethus* = *acipenserinus*).**2412. Podothecus accipiter Jordan & Starks.**

Robben Island.

*Podothecus accipiter* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 816, pl. 88, Robben Island, Okhotsk Sea.**2413. Podothecus gilberti (Collett).**

Kamchatka.

*Agonus gilberti* Collett, Proc. Zool. Soc. Lond. 1894, 670, pl. 45, Kamchatka.**2414. Podothecus acipenserinus (Tilesius). Common Alligator-fish.**

Kamchatka to Puget Sound.

*Agonus acipenserinus* Tilesius, Mém. Ac. Petersb., iv, 1811, 422, pl. 11, fig. 163, Unalaska.**2415. Podothecus veternus Jordan & Starks.**

Robben Island.

*Podothecus veternus* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 819, pl. 89, Robben Island, Okhotsk Sea.**Genus 757. STELGIS Cramer.***Stelgis* Cramer, Proc. Cal. Ac. Sci. 1895, 821 (*rulens*).**2416. Stelgis vulsus (Jordan & Gilbert).**

Off San Francisco.

*Agonus vulsus* Jordan & Gilbert, Proc. U. S. Nat. Mus., III, 1880, 330, Point Reyes, near San Francisco.**Genus 758. AVERRUNCUS Jordan & Starks.***Averruncus* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 824 (*emmelane*).**2417. Averruncus emmelane Jordan & Starks.**

Puget Sound, near Port Orchard.

*Averruncus emmelane* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 821, pl. 91, Port Orchard, Puget Sound.

\* Distinguished by the armature, especially that of the breast, which is reduced to prickles.



Genus 759. **SARRITOR** Cramer.

*Sarritor* Cramer, in Jordan & Evermann, Fishes North and Middle America, 1896 (*frenatus*).

2418. **Sarritor frenatus** (Gilbert).

Coast of Alaska.

*Odontopyxis frenatus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 435, pl. 30, fig. 3, Alaska and Aleutian Islands, at Albatross Stations 3219, 3225, and many others, in 16 to 351 fathoms.

2419. **Sarritor leptorhynchus** (Gilbert).

Coast of Alaska.

*Odontopyxis leptorhynchus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 437, north and south of the Alaskan peninsula, at Albatross Stations 3215, 3219, and others, in 32 to 59 fathoms.

Genus 760. **XYSTES** Jordan & Starks.

*Xystes* Jordan & Starks, Proc. Cal. Ac. Sci. 1896, 824 (*axinophrys*).

2420. **Xystes axinophrys** Jordan & Starks.

Puget Sound.

*Xystes axinophrys* Jordan & Starks, Proc. Cal. Ac. Sci. 1896, 824, pl. 93, Port Orchard, Admiralty Inlet.

Genus 761. **BATHYAGONUS** Gilbert.

*Bathyagonus* Gilbert, Proc. U. S. Nat. Mus., XIII, 1890, 89 (*nigripinnis*).

2421. **Bathyagonus nigripinnis** Gilbert.

North Pacific, known from the Aleutian Islands, Bering Sea, south to the coast of Washington.

*Bathyagonus nigripinnis* Gilbert, Proc. U. S. Nat. Mus. 1890, 89, coast of Washington, at Albatross Station 3073, in 477 fathoms.

Genus 762. **XENOCHIRUS** Gilbert.

*Xenochirus* Gilbert, Proc. U. S. Nat. Mus., XIII, 1890, 90 (*triacanthus*).

2422. **Xenochirus pentacanthus** Gilbert.

Coast of Washington.

*Xenochirus pentacanthus* Gilbert, Proc. U. S. Nat. Mus. 1890, 91, coast of Washington, at Albatross Station 3076, in 178 fathoms.

2423. **Xenochirus alascanus** Gilbert.

Aleutian Islands.

*Xenochirus alascanus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 438, Unimak Pass, Aleutian Islands, at Albatross Stations 3216, 3219, and others, in 35 to 138 fathoms.

2424. **Xenochirus latifrons** Gilbert.

North Pacific Coast, from Oregon to San Diego.

*Xenochirus latifrons* Gilbert, Proc. U. S. Nat. Mus. 1890, 92, off coast of Oregon and San Diego, at Albatross Stations 2898, 2935, etc., in 61 to 158 fathoms.

2425. **Xenochirus triacanthus** Gilbert.

Pacific Coast, from Santa Barbara to Washington.

*Xenochirus triacanthus* Gilbert, Proc. U. S. Nat. Mus. 1890, 91, off coast of California, Oregon, and Washington, at Albatross Stations 2863, 2973, and 3059 in 145, 68, and 77 fathoms.

Genus 763. **ODONTOPYXIS** Lockington.

*Odontopyxis* Lockington, Proc. U. S. Nat. Mus., II, 1879, 328 (*trispinosus*).

2426. **Odontopyxis trispinosus** Lockington.

Pacific Coast of United States, from Puget Sound to Santa Barbara.

*Odontopyxis trispinosus* Lockington, Proc. U. S. Nat. Mus., II, 1879, 328, San Francisco.

49. *Avicennia*  
*emmelana*.

*Xeranthemum*. subsp. for *Xenoschisma* procl

*Antennaria* bulbosa. pentacanthus



**Genus 764. BOTHRAGONUS Gill.***Bothragonus* Gill, in Jordan & Gilbert, Synopsis, 728, 1883 (*swanii*).**2427. Bothragonus swanii (Steindachner).**

Puget Sound.

*Hypsagonus swanii* Steindachner, Ichth. Beitr., v, 144, pl. 4, Sitzb. der Akad. Wiss., LXXIV, July, 1876, Port Townsend, Washington.**Genus 765. ASPIDOPHOROIDES Lacépède.***Aspidophoroides* Lacépède, Hist. Nat. Poiss., III, 228, 1802 (*tranquebar* = *monopterygius*).**Subgenus ULCINA Cramer.***Ulcina* Cramer, new subgenus (*olrikii*).**2428. Aspidophoroides olrikii Lütken.**

Arctic Ocean; known from west coast of Greenland, Davis Strait, Kara Sea, Barrants Bay, and Nova Zembla.

*Aspidophoroides olrikii* Lütken, Forelob. Meddel. om Nord Ulkefische, Vidensk. Meddel. Naturhist., Foren. Kjob. 386, with 3 figures, 1876, Greenland.**Subgenus ASPIDOPHOROIDES Lacépède.****2429. Aspidophoroides guntheri Bean.**

Coast of Alaska.

*Aspidophoroides guntheri* Bean, Proc. U. S. Nat. Mus. 1885, 74, Alaska.**2430. Aspidophoroides monopterygius (Bloch)**

Greenland to Cape Cod.

*Cottus monopterygius* Bloch, Ichth., II, 156, pl. 178, figs. 1, 2, 1786, Tranquebar; an error.**2431. Aspidophoroides bartoni Gilbert.**

Aleutian Islands.

*Aspidophoroides bartoni* Gilbert, Rept. U. S. F. C. 1893 (1896), 434, Aleutian Islands and Bristol Bay, Alaska, at Albatross Stations 3213, 3223, and many others, in 11½ to 121 fathoms.**Subgenus ANOPLAGONUS Gill.***Anoplagonus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 259 (*inermis*).**2432. Aspidophoroides inermis Günther.**

Coasts of Alaska, south to Vancouver Island.

*Aspidophoroides inermis* Günther, Cat., II, 524, 1860, Vancouver Island.**Family CLXXXIII. CYCLOPTERIDÆ. The Lump Suckers.****Genus 766. CYCLOPTERUS (Artedi) Linnaeus.***Cyclopterus* Linnaeus, Syst. Nat., ed. x, I, 260, 1758 (*lumpus*).**2433. Cyclopterus lumpus Linnaeus. Lumpfish; Cock and Hen Paddle; Lump Sucker.**

North Atlantic; rocky shores of both coasts, south to Cape Cod and France.

*Cyclopterus lumpus* Linnaeus, Syst. Nat., ed. XI, I, 260, 1766, Baltic and North Sea.**Genus 767. EUMICROTREMUS Gill.***Eumicrotremus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 190 (*spinosus*).**2434. Eumicrotremus spinosus (Müller).**

North Atlantic and Arctic oceans, south to Maine and Denmark; Eastport, Maine.

*Cyclopterus spinosus* Müller, Prodr. Zool. Dan., IX, 1777, Denmark.**2435. Eumicrotremus orbis (Günther).**

Aleutian Islands.

*Cyclopterus orbis* Günther, Cat., III, 158, 1861, Vancouver Island.

**Genus 768. LETHOTREMUS Gilbert.***Lethotremus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 449 (*muticus*).**2436. Lethotremus muticus Gilbert.**

Aleutian Islands, near Unimak Pass, Alaska.

*Lethotremus muticus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 449, pl. 31, Unimak Pass, Alaska, at Albatross Stations 3223 and 3258, in 56 to 70 fathoms.**2437. Lethotremus vinolentus Jordan & Starks**

Puget Sound, Washington.

*Lethotremus vinolentus* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 827, pl. 94, Puget Sound, near Seattle, Washington.**Genus 769. CYCLOPTEROIDES Garman.***Cyclopteroides* Garman, Mon. Discoboli, 37, 1892 (*gyrinops*).**2438. Cyclopteroides gyrinops Garman.**

St. Paul Island, Alaska.

*Cyclopteroides gyrinops* Garman, Mon. Discoboli, in Memoirs Mus. Comp. Zool., 37, 1892, St. Paul Island.**Genus 770. CYCLOPTERICHTHYS Steindachner.***Cyclopterichthys* Steindachner, Ichth. Beitr., x, 14, 1881 (*glaber* = *ventricosus*).**2439. Cyclopterichthys ventricosus (Pallas).**

Kamchatka; Sea of Okhotsk.

*Cyclopterus ventricosus* Pallas, Spicilogia Zoo., vii, 15, t. 2, 1770, no locality given, somewhere about Kamchatka.**Genus 771. LIPAROPS Garman.***Liparops* Garman, Discoboli, 42, 1892 (*stelleri*).**2440. Liparops stelleri Pallas.**

Peter and Paul Harbor, Kamchatka.

*Liparops stelleri* Pallas, in Garman, Discoboli, 42, 1892, Peter and Paul Harbor, Kamchatka.**Family CLXXXIV. LIPARIDIDÆ The Sea Snails.****Genus 772. NEOLIPARIS Steindachner.***Neoliparis* Steindachner, Ichth. Beitr., iii, 54, 1875 (*mucosus*).**2441. Neoliparis montagui (Donovan).**

North Atlantic, on both coasts, south to Connecticut.

*Cyclopterus montagui* Donovan, Brit. Fishes, iii, pl. 68, 1805, England; after *Montague's* Sucker.**2442. Neoliparis calliodon (Pallas).**

Coasts of Alaska, north to Kamchatka and Bering Sea; recorded from St. Paul, Kamchatka, Plover Bay, Siberia, Unalaska, and Kodiak.

*Cyclopterus calliodon* Pallas, Zoogr. Rosso-Asiat, iii, 75, 1811, Kamchatka and Aleutian Islands.**2443. Neoliparis mucosus (Ayres).**

Coast of California.

*Liparis mucosus* Ayres, Proc. Cal. Ac. Sci., 1, 1855, 24 San Francisco**2444. Neoliparis floræ Jordan & Starks.**

Pacific Coast, Puget Sound to Monterey

*Neoliparis flora* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 830, pl. 96, fig. 1, Waadda Island, Straits of Juan de Fuca**2445. Neoliparis greeni Jordan & Starks.**

Puget Sound, at Victoria, British Columbia.

*Liparis greeni* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 829, pl. 96, figs. 2 and 3, Victoria, British Columbia.

*Aprocyclus* Pylae

*Neoliparis atlanticus* (not Montagu)  
coast & me.

*Neoliparis rutteri*, Gilbert & Snyder  
Kadiak

*Neoliparis fissuratus* Starks  
Puget Sound.

*Liparis hirschkei* Seefeld.  
(near tunicata)

Genus 773. **LIPARIS** (Artedi) Scopoli. *Sea Snails*.

*Liparis* (Artedi) Scopoli, Introd. Hist. Nat., 453, 1777 (*liparis*).

Subgenus **LIPARIS** (Artedi) Scopoli.

2446. **Liparis liparis** (Cuvier). *Sea Snail*.

North Atlantic, on both shores, south to Connecticut and France.

*Cyclopterus liparis* Linnaeus, Syst. Nat., ed. 12, 1, 414, 1766, Northern Ocean; after Artedi and Gronow.

2447. **Liparis cyclopus** Günther.

Aleutian Islands to Puget Sound.

*Liparis cyclopus* Günther, Cat., III, 162, 1861, Esquimault Harbor, Vancouver Island.

2448. **Liparis fucensis** Gilbert.

Straits of Fuca.

*Liparis fucensis* Gilbert, Proc. Cal. Ac. Sci. 1895, 837, and Rept. U. S. Fish Com. 1893 (1896), 447, Port Angeles, Straits of Juan de Fuca.

2449. **Liparis tunicata** Reinhardt.

Coast of Greenland.

*Liparis tunicata* Reinhardt, Overs. Kong. Danske Vidensk. Selsk., VI, CXI, 1836, Greenland.

2450. **Liparis agassizii** Putnam.

Bristol Bay.

*Liparis agassizii* Putnam, Proc. Amer. Assoc. Adv. Sci. 1874, 339, Sakhalin Channel of Tartary.

2451. **Liparis dennyi** Jordan & Starks.

North Pacific, from Aleutian Islands south to Puget Sound.

*Liparis dennyi* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 835, pl. 98, Admiralty Inlet, near Seattle.

2452. **Liparis cyclostigma** Gilbert.

Bristol Bay, Alaska.

*Liparis cyclostigma* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 446, Bristol Bay, Alaska, at Albatross Station 3252, in 29½ fathoms.

Subgenus **LYOLIPARIS**\* Jordan & Evermann.

*Lyoliparis* Jordan & Evermann, new subgenus (*pulchellus*).

2453. **Liparis pulchellus** Ayres.

Point Reyes, California; northern Pacific, Alaska to Monterey.

*Liparis pulchellus* Ayres, Proc. Cal. Ac. Sci., I, 1855, 23, San Francisco.

Subgenus **ACTINOCHIR** GILL.

*Actinochir* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 193 (*major*).

2454. **Liparis major** (Gill).

Coasts of Greenland.

*Actinochir major* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 193, Greenland.

Genus 774. **BATHYPHASMA** Gilbert.

*Bathypasma* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 448 (*origerum*).

2455. **Bathypasma ovigerum** Gilbert.

Off Queen Charlotte Island, British Columbia.

*Bathypasma origerum* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 448, Queen Charlotte Island, at Albatross Station 3342, in 1,588 fathoms.

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\* Distinguished from *Careliparis* by the greater number of vertebrae, and from *Actinochir* by the depressed cranium.



Genus 775. *CAREPROCTUS* Kroyer.*Careproctus* Kroyer, Naturh. Tidskr., 1, 257, 1862 (*reinhardtii*).

Subgenus 'CARENITHRA' Jordan &amp; Evermann.

*Caremitra* Jordan & Evermann, new subgenus (*simus*).2456. *Careproctus aimus* Gilbert.

Off Unalaska Island.

*Careproctus aimus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 444, off Unalaska, at Albatross Station 3331, in 350 fathoms.Subgenus *CAREPROCTUS* Kroyer.2457. *Careproctus colletti* Gilbert.

South of Alaska Peninsula.

*Careproctus colletti* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 442, south of Alaska Peninsula, at Albatross Station 3338, in 625 fathoms.2458. *Careproctus phasma* Gilbert.

Bristol Bay, Alaska.

*Careproctus phasma* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 443, Bristol Bay, Alaska, at Albatross Stations 3254 and 3256, in 46 and 49 fathoms.2459. *Careproctus spectrum* Bean.

Between Unga and Nagai islands, Alaska.

*Careproctus spectrum* Bean, Proc. U. S. Nat. Mus. 1880, 40, between Unga and Nagai islands, 160° 18' W., 55° 10' N., at Albatross Station 2848, in 110 fathoms.2460. *Careproctus reinhardtii* (Kroyer).

Greenland, Jan Mayen, and Beeren Island.

*Liparis* (*Careproctus*) *reinhardtii* Kroyer, Naturh. Tidskr., 1, 252, 1862, Greenland.2461. *Careproctus ranula* (Goode & Bean).

Off Halifax Harbor.

*Liparis ranula* Goode & Bean, Proc. U. S. Nat. Mus. 1880, 46, Halifax.2462. *Careproctus ostentum* Gilbert.

Unalaska Island.

*Careproctus ostentum* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 444, north of Unalaska Island, at Albatross Stations 3324 and 3331, in 109 and 360 fathoms.2463. *Careproctus gelatinosus* (Pallas).

Peter and Paul Harbor, Kamchatka.

*Cyclopterus gelatinosus* Pallas, Spicilegia, VII, 19, 1769, Peter and Paul Harbor, Kamchatka.Subgenus *ALLOCHIR* Jordan & Evermann.*Allochir* Jordan & Evermann, new subgenus (*melanurus*).2464. *Careproctus melanurus* Gilbert.

Off coast of California and Oregon.

*Careproctus melanurus* Gilbert, Proc. U. S. Nat. Mus. 1891, 560, off coasts of California and Oregon, at Albatross Stations 2840, 2891, and others, in 178 to 339 fathoms.Subgenus *ALLIENUS* Jordan & Evermann.*Alliurus* Jordan & Evermann, new subgenus (*ectenes*).2465. *Careproctus ectenes* Gilbert.

Unalaska Island.

*Careproctus ectenes* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 442, north of Unalaska, at Albatross Station 3331, in 350 fathoms.

\* Distinguished by the short deep body and blunt head.

† Distinguished by the entire pectoral fins, without trace of notch

‡ Distinguished by the excessively elongate body and depressed snout.

*Caraprotus longifiliis* Harman  
Science. April 1. 1892. 187. name only  
deep water. off Central Amer.

*Caraprotus cyprinus* For. & Sherrill

*Paraliparis frontalis* Gurnea  
- 1871. Science - April 1, 1882.  
name only. Dep. W. of C.A.

**Genus 776. GYRINICHTHYS Gilbert.***Gyrinichthys* Gilbert, Rept. U. S. Fish Com. (1893) 1896, 444 (*minytremus*).**2466. *Gyrinichthys minytremus* Gilbert.**

Off Unalaska Island.

*Gyrinichthys minytremus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 444, north of Unalaska, at Albatross Station 3331, in 350 fathoms.**Genus 777. AMITRA Goode.***Amitra* Goode, Proc. U. S. Nat. Mus. 1880, 478 (*liparina*).**2467. *Amitra liparina* Goode.**

Atlantic Ocean, off Rhode Island.

*Amitra liparina* Goode, Proc. U. S. Nat. Mus. 1880, 478, off Rhode Island.**Genus 778. PARALIPARIS Collett.***Paraliparis* Collett, Vid. Selsk. Forsk. Christiania, 14, 32. 1878 (*bathybit*).

Subgenus PARALIPARIS Collett.

**2468. *Paraliparis holomelas* Gilbert.**

North of Unalaska Island.

*Paraliparis holomelas* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 441, north of Unalaska, at Albatross Stations 3308 and 3332, in 406 and 1,625 fathoms.

Subgenus AMITRICHTHYS\* Jordan &amp; Evermann.

*Amitrichthys* Jordan & Evermann, new subgenus (*cephalus*).**2469. *Paraliparis cephalus* Gilbert.**

Alaska to California.

*Paraliparis cephalus* Gilbert, Proc. U. S. Nat. Mus. 1891, 561, off California and Oregon, at Albatross Station 2919, in 984 fathoms.**2470. *Paraliparis rosaceus* Gilbert.**

Coast of Mexico.

*Paraliparis rosaceus* Gilbert, Proc. U. S. N. M. 1890, 93, west coast of Mexico, at Albatross Stations 2898, 2935, and others, in 61 to 158 fathoms.**2471. *Paraliparis mento* Gilbert.**

Coast of Oregon.

*Paraliparis mento* Gilbert, Proc. U. S. Nat. Mus. 1891, 562, off coast of Oregon, at Albatross Station 3071, in 685 fathoms.**2472. *Paraliparis copei* Goode & Bean.**

Gulf Stream.

*Paraliparis copei* Goode & Bean, Ocean. Ichth., 279, fig. 253, 1896, Gulf Stream, at Albatross Station 2232, 39° 12' 17" N., 72° 9' 30" W., in 520 fathoms.**2473. *Paraliparis dactylosus* Gilbert.**

Off Santa Cruz, California.

*Paraliparis dactylosus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 469, pl. 34, fig. 2, off Santa Cruz, California, at Albatross Station 3112, in 296 fathoms.

Subgenus HILGENDORFIA Goode &amp; Bean.

*Hilgendorfia* Goode & Bean, Oceanic Ichth., 280, 1896 (*membranacea*).**2474. *Paraliparis ulochir* Gilbert.**

Gulf of California and Unalaska.

*Paraliparis ulochir* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 441, Gulf of California, at Albatross Station 3010, in 1,005 fathoms.**Genus 779. RHINOLIPARIS Gilbert.***Rhinoliparis* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 445 (*barbulifer*).**2475. *Rhinoliparis barbulifer* Gilbert.**

Bering Sea.

*Rhinoliparis barbulifer* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 445, north of Unalaska, Alaska, at Albatross Stations 3227, 3325, and others, in 225 to 576 fathoms.

\* Distinguished by the very small gill-openings, above pectorals.

## Group GOBIOIDEI. The Gobies.

## Family CLXXXV. CALLIONYMIDÆ. The Dragonets.

## Genus 760. CALLIONYMUS Linnaeus.

*Callionymus* Linnaeus, Syst. Nat., ed. x, 249, 1758 (*lyra*).2476. *Callionymus bairdi* Jordan.

"Snapper Banks," between Pensacola and Tampa, Florida.

*Callionymus bairdi* Jordan, Proc. U. S. Nat. Mus. 1887, 501, Snapper Banks, off Pensacola, Florida.2477. *Callionymus himantophorus* Goode & Bean.

Off Barbados; off Santa Cruz.

*Callionymus himantophorus* Goode & Bean, Oceanic Ichth., 296, figs. 268 A and B, 1896, off Barbados, in 200 fathoms.2478. *Callionymus callurus* Eigenmann & Eigenmann.

Key West, Florida.

*Callionymus callurus* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 76, South Beach, Key West.2479. *Callionymus pauciradiatus* Gill.

Mantanzas, Cuba.

*Callionymus pauciradiatus* Gill, Ann. Lyc. Nat. Hist. N. Y., viii, 1885, 143, Mantanzas, Cuba.

## Family CLXXXVI. GOBIIDÆ. The Gobies.

## Genus 761. IOGLOSUS Bean.

*Ioglossus* Bean, in Jordan and Gilbert, Proc. U. S. N. M. 1892, 297 (*callurus*).2480. *Ioglossus callurus* Bean.

Gulf of Mexico; Snapper Banks, off Pensacola, Florida.

*Ioglossus callurus* Bean, in Jordan & Gilbert, Proc. U. S. Nat. Mus. 1892, 297, Pensacola, Florida.

## Genus 762. PHILYPNUS Cuvier &amp; Valenciennes.

*Philypnus* Cuvier & Valenciennes, Hist. Nat. Poiss., xii, 255, 1837 (*dormitor*).2481. *Philypnus dormitor* (Lacépède). *Sleeper*; *Guarina*.

Streams of the West Indies and Atlantic shores of Central America, Mexico and Surinam.

*Gobiomorus dormitor* Lacépède, Hist. Nat. Poiss., ii, 599, 1798, Martinique; from a drawing by Plumier.2482. *Philypnus lateralis* Gill. *Aboma de Mar*.

Streams of Pacific Coast of Mexico and Central America, from Sonora to Panama.

*Philypnus lateralis* Gill, Proc. Ac. Nat. Sci. Phila. 1860, 121, Cape San Lucas.

## Genus 763. DORMITATOR Gill.

*Dormitator* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 240 (*gundlachi*).2483. *Dormitator maculatus* (Bloch). *Guarina-Mapo*; *Paneca*.

Both coasts of America, ranging from South Carolina through the West Indies to Pará, Cape San Lucas, and Panama.

*Sciæna maculata* Bloch, Ichth., pl. 209, fig. 2, 1790, West Indies.

## Genus 764. GUAVINA Bleeker.

*Guarina* Bleeker, Esquisse d'un Syst. Nat. Gobionid., 302, 1874 (*guarina*).2484. *Guavina guavina* (Cuvier & Valenciennes). *Guarubaco*; *Guarina*.

East coast of tropical America, Cuba to Rio Janeiro.

*Eleotris guarina* Cuvier & Valenciennes, Hist. Nat. Poiss., xii, 223, 1837, Martinique.

Calliopyrus nsp. German



**Genus 785. ELEOTRIS Bloch & Schneider.***Eleotris* Bloch & Schneider, Syst. Ichth., 65, 1801 (*pisonis*).**2485. *Eleotris amblyopsis* (Cope).**

Atlantic Coast of America, from Charleston, South Carolina, to Surinam; streams of West Indies.

*Eleotris amblyopsis* Cope, Trans. Amer. Philos. Soc. 1870, 473, Surinam.**2486. *Eleotris abacurus* Jordan & Gilbert.**

Coast of South Carolina.

*Eleotris abacurus* Jordan & Gilbert, Proc. Cal. Ac. Sci. 1896, 228, Charleston, South Carolina.**2487. *Eleotris pisonis* (Gmelin). *Guavina*; *Tetard*; *Sleeper*.**

Rio Almendares, Cuba.

*Gobius pisonis* Gmelin, Syst. Nat., 106, 1788, Rio Almendares, Cuba (based on *Eleotris* of Gronow).**2488. *Eleotris perniger* (Cope).**

West Indies, south to Rio Janeiro.

*Culius perniger* Cope, Trans. Amer. Philos. Soc. 1870, 473, St. Martins.**2489. *Eleotris pictus* Kner & Steindachner. *Guavina*.**

Streams about the Gulf of California, from Sonora south to Panama; Rio Presidio.

*Eleotris pictus* Kner & Steindachner, Abh. Ak. Wiss. Wien, 1864, 18, pl. 3, fig. 1, Rio Bayano, near Panama.**Genus 786. ALEXURUS Jordan.***Alexurus* Jordan, Proc. Cal. Ac. Sci. 1895, 511 (*armiger*).**2490. *Alexurus armiger* Jordan.**

La Paz, Baja California.

*Alexurus armiger* Jordan & Richardson, in Jordan, Proc. Cal. Ac. Sci. 1895, 511, pl. 48, La Paz, Lower California.**Genus 787. EROTELIS Poey. *Esmeraldes de Mar*.***Erotelis* Poey, Memorias, II, 273, 1861 (*valenciennesi* = *smaragdus*).**2491. *Erotelis smaragdus* (Cuvier & Valenciennes). *Esmeralda Negra*; *Esmeralda de Mar*.**

Key West and Cuba; coral shores among algæ.

*Eleotris smaragdus* Cuv. & Val., Hist. Nat. Poiss., XII, 231, 1837, Cuba.**Genus 788. GYMNELEOTRIS Bleeker.***Gymneleotris* Bleeker, Esqu. d'un Syst. Nat. des Gobi., 304, 1874 (*seminuda*).**2492. *Gymneleotris seminuda* (Günther).**

Panama.

*Eleotris seminuda* Günther, Proc. Zool. Soc. Lond. 1864, 24, pl. 4, figs. 2, 2a, Panama.**Genus 789. CHRIOLEPIS Gilbert.***Chriolepis* Gilbert, Proc. U. S. Nat. Mus. 1891, 557 (*minutillus*).**2493. *Chriolepis minutillus* Gilbert.**

Gulf of California.

*Chriolepis minutillus* Gilbert, Proc. U. S. Nat. Mus. 1891, 558, Gulf of California, at Albatross Station 2825.**Genus 790. SICYDIUM Cuvier & Valenciennes.***Sicydium* Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 168, 1837 (*plumieri*).**2494. *Sicydium plumieri* (Bloch). *Sirago*.**

Fresh waters of the West Indies.

*Gobius plumieri* Bloch, Ichth., 125, pl. 178, fig. 3, 1786, Martinique; on a drawing by Plumier.**2495. *Sicydium antillarum* Ogilvie-Grant.**

Barbados.

*Sicydium antillarum* Ogilvie-Grant, Proc. Zool. Soc. Lond. 1884, 157, Barbados.



2496. *Sicydium vincente* Jordan & Evermann.

Kingston, St. Vincent Island; Haiti.

*Sicydium vincente* Jordan & Evermann, Fishes North and Middle America, 1896, St. Vincent Island.

Genus 791. *COTYLOPUS* Guichenot.

*Cotylopus* Guichenot, in Mailland, Notes sur l'Isle de la Réunion, II, Addendum, 9, 1864 (*acutipinnis*).

Subgenus *SICYA* Jordan & Evermann.

*Sicya* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*gymnogaster*).

2497. *Cotylopus gymnogaster* (Ogilvie-Grant).

Streams about Mazatlan, Mexico.

*Sicydium gymnogaster* Ogilvie-Grant, Proc. Zool. Soc. Lond. 1884, 158, pl. 11, fig. 2, and pl. 12, fig. 6, Mazatlan, Mexico.

2498. *Cotylopus salvini* (Ogilvie-Grant).

Streams near Panama.

*Sicydium salvini* Ogilvie-Grant, Proc. Zool. Soc. Lond. 1884, 159, pl. 12, fig. 2, Panama.

Genus 792. *EVORTHODUS* GILL.

*Evorthodus* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 195 (*breviceps*).

2499. *Evorthodus breviceps* Gill.

Trinidad and Surinam.

*Evorthodus breviceps* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 195, Trinidad.

Genus 793. *LOPHOGOBIOUS* GILL. *Crested Gobies*.

*Lophogobius* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 240 (*cristagalli* = *cyprinoides*).

2500. *Lophogobius cyprinoides* (Pallas).

West Indies; Cuba.

*Gobius cyprinoides* Pallas, Spic., Zool., VIII, 17, pl. 1, fig. 5, 1770, "Amboina."

Genus 794. *GOBIOUS* (Artedi) LINNÆUS.

*Gobius* (Artedi) Linnæus, Syst. Nat., ed. x, 262, 1758 (*niger*).

Subgenus *GOBIOUS* (Artedi) LINNÆUS.

2501. *Gobius soporator* Cuvier & Valenciennes. *Sleeper; Mapo; Caiman.*

Panama, Barbados, Pará, Itapua, Cuba, Galapagos, Sambara, Bahamas, Orange Key, Bahia, Pernambuco, St. Thomas, Tortugas, Florida Keys, Martinique, Sao Matheas, Curuca, Rio de Janeiro, Rio Doce.

*Gobius soporator* Cuv. & Val., Hist. Nat. Poiss., XII, 56, 1837, Martinique.

Subgenus *CTENOGOBIOUS* GILL.

*Ctenogobius* Gill, Ann. Lyc. Nat. Hist. N. Y., VI, 1858, 374, 430 (*fasciatus*).

2502. *Gobius nicholsi* Bean

Coast of British Columbia.

*Gobius nicholsi* Bean, Proc. U. S. Nat. Mus. 1881, 469, Departure Bay, British Columbia.

2503. *Gobius glaucofrænum* (Gill).

Florida Keys; Tortugas (?); Washington (?).

*Coryphopterus glaucofrænum* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 263, coast of Washington, evidently an error.

2504. *Gobius manglicola* Jordan & Starks.

Pacific Coast of Mexico at Mazatlan.

*Gobius manglicola* Jordan & Starks, in Jordan, Proc. Cal. Ac. Sci. 1895, 495, Mazatlan, Mexico.

2505. *Gobius stigmaturus* Goode & Bean.

Florida Keys.

*Gobius stigmaturus* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 418, no type locality given, but specimens probably from Florida Keys.

*Robinus eigenmanni*, Garman  
Bull. Iowa,  
96, 88

Key West.  
(near mangroves)



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- 2506. *Gobius quadriporus* Cuvier & Valenciennes.**  
Surinam.  
*Gobius quadriporus* Cuv. & Val., Hist. Nat. Poiss., xii, 87, 1837, Surinam.
- 2507. *Gobius shufeldti* Jordan & Eigenmann.**  
Gulf Coast of United States,  
*Gobius shufeldti* Jordan & Eigenmann, Proc. U. S. Nat. Mus. 1886, 495, New Orleans.
- 2508. *Gobius boleosoma* Jordan & Gilbert.**  
Gulf of Mexico, Pensacola to Key West.  
*Gobius boleosoma* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 295, Laguna Grande, Pensacola.
- 2509. *Gobius fasciatus* (Gill).**  
West Indies.  
*Ctenogobius fasciatus* Gill, Ann. Lyc. Nat. Hist. N. Y., vi, 1858, 376, Trinidad.
- 2510. *Gobius encæomus* Jordan & Gilbert.**  
South Carolina to Key West.  
*Gobius encæomus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 611, Charleston, South Carolina.
- 2511. *Gobius stigmaticus* (Poey).**  
Coast of North Carolina, Florida Keys, West Indies, southward to Rio Janeiro; common at Havana.  
*Smaragdus stigmaticus* Poey, Memorias, ii, 281, 1861, Cuba.
- 2512. *Gobius lyricus* Girard.**  
Gulf of Mexico, from Galveston to Cuba and the Lesser Antilles.  
*Gobius lyricus* Girard, Proc. Ac. Nat. Sci. Phila. 1858, 169, Brazos Santiago, Texas.
- 2513. *Gobius garmani* Eigenmann & Eigenmann.**  
Dominica; Fort de France; Martinique; St. Kitts.  
*Gobius garmani* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 61, Dominica, Fort de France, Martinique, and St. Kitts.
- 2514. *Gobius zebra* Gilbert.**  
West coast of Mexico.  
*Gobius zebra* Gilbert, Proc. U. S. Nat. Mus. 1890, 73, west coast of Mexico.
- Subgenus **EUCTENOGOBIUS** Gill.  
*Euctenogobius* Gill, Ann. Lyc. Nat. Hist. N. Y., vii, 1859, 45 (*badius*).
- 2515. *Gobius poeyi* Steindachner.**  
Barbados.  
*Gobius poeyi* Steindachner, Ichth. Notizen, vi, 44, 1867, Barbados.
- 2516. *Gobius badius* (Gill).**  
Mouth of Amazon.  
*Euctenogobius badius* Gill, Ann. Lyc. Nat. Hist. N. Y., vii, 1859, 47, Amazon.
- Subgenus **GOBIONELLUS** Girard.  
*Gobionellus* Girard, Proc. Ac. Nat. Sci. Phila. 1858, 168 (*hastatus*).
- 2517. *Gobius microdon* Gilbert.**  
San Juan Lagoon, west coast of Mexico.  
*Gobius microdon* Gilbert, Proc. U. S. Nat. Mus. 1891, 554, San Juan Lagoon, north of Rio Ahomè, Mexico.
- 2518. *Gobius smaragdus* Cuvier & Valenciennes. *Esmeralda*.**  
West Indies, south to Rio Janeiro, north to St. Augustine, Florida, and to Charleston.  
*Gobius smaragdus* Cuv. & Val., Hist. Nat. Poiss., xii, 120, 1837, Cuba.
- 2519. *Gobius strigatus* (O'Shaughnessy).**  
Coast of Surinam.  
*Euctenogobius strigatus* O'Shaughnessy, Ann. Mag. Nat. Hist., 15, 1875, 145, Nagasaki, Japan.

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**O. *Gobius sagittula* (Günther).**

Gulf of California, south to Panama.

*Eucenogobius sagittula* Günther, Proc. Zool. Soc. Lond. 1861, 3, west coast of Central America.

**2521. *Gobius hastatus* Girard. Emerald-fish; Sharp-tailed Goby.**

Gulf of Mexico.

*Gobionellus hastatus* Girard, Proc. Ac. Nat. Sci. Phila. 1858, 168, St. Joseph Island, Texas.

**2522. *Gobius oceanicus* Pallas. Emeralds; Endormi; Emerande; Bacalhao Sabara.**

Gulf Coast of United States, southward through the West Indies.

*Gobius oceanicus* Pallas, Spicilegium, viii, 4, 1769, locality unknown; after Gronow.

Subgenus **LYTHRYPNUS** Jordan & Evermann.

*Lythrypnus* Jordan & Evermann, new subgenus (*dalli*).

***Gobius dalli* Gilbert.**

Catalina Harbor, California.

*Gobius dalli* Gilbert, Proc. U. S. Nat. Mus. 1890, 73, Catalina Harbor, California, in 35 fathoms.

Genus 795. **GARMANNIA** Jordan & Evermann. Half-naked Gobies.

*Garmannia* Jordan & Evermann, Proc. Cal. Ac. Sci. 1895, 495, pl. 49 (*paradoxus*).

**2524. *Garmannia paradoxa* (Günther).**

Pacific Coast of Mexico, Mazatlan to Panama.

*Gobius paradoxus* Günther, Proc. Zool. Soc. Lond. 1861, 3, west coast of Central America.

*Garmannia hemigymna* (Eigenmann & Eigenmann).

Indies.

*Garmannia hemigymna* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 66, dredged in the West Indies.

**5. *Garmannia seminuda* (Günther).**

West coast of Central America.

*Gobius seminudus* Günther, Proc. Zool. Soc. Lond. 1861, 3, west Central America.

Genus 796. **RHINOBOBIUS** Gill.

*Rhinogobius* Gill, Proc. Acad. Nat. Sc. Phila. 1859, 145 (*similis*).

**2527. *Rhinogobius flavus* (Cuvier & Valenciennes).**

Rivers of Surinam and Brazil, south to Bahia.

*Gobius flavus* Cuvier & Valenciennes, Hist. Nat. Poiss., xii, 60, 1837, Surinam.

**2528. *Rhinogobius talasica* (Lichtenstein).**

West Indies, both coasts of Mexico, south to Brazil; common in Cuba, in Sinaloa, and about La Paz, in Lower California, thence southward to Panama.

*Gobius talasica* Lichtenstein, Berl. Abhandl., 273, 1822 (not *Tajasica* Marcgrave), Brazil.

**2529. *Rhinogobius mexicanus* (Günther).**

Fresh-water streams of eastern slope of Mexico.

*Gobius mexicanus* Günther, Cat., iii, 61, 1861, Mexico.

Genus 797. **BOLLMANNIA** Jordan.

*Bollmannia* Jordan, Proc. U. S. Nat. Mus. 1889, 164 (*chlamydes*).

**2530. *Bollmannia ocellata* Gilbert.**

Gulf of California.

*Bollmannia ocellata* Gilbert, Proc. U. S. Nat. Mus. 1891, 555, northern part of Gulf of California at Albatross Stations 3031 and 3035, in 30 and 33 fathoms.

**2531. *Bollmannia chlamydes* Jordan.**

Pacific Ocean, off coast of Colombia.

*Bollmannia chlamydes* Jordan, Proc. U. S. Nat. Mus. 1889, 161, off coast of Colombia, at Albatross Stations 2800 and 2805, in 51½ fathoms.

Garmanua rubra Rosen,  
Andros. Linn Mus.

Is not Symplectris also Garmanua?

V. said to be ~~sp~~ separate,  
but only split,

Pycnonura may be same.



**2532. *Bollmannia macropoma* Gilbert.**

Gulf of California, just north of La Paz Bay.

*Bollmannia macropoma* Gilbert, Proc. U. S. Nat. Mus. 1891, 556, near La Paz, Gulf of California, at Albatross Station 2996, in 112 fathoms.**2533. *Bollmannia stigmatura* Gilbert.**

Northern part of the Gulf of California.

*Bollmannia stigmatura* Gilbert, Proc. U. S. Nat. Mus. 1891, 556, Gulf of California, at Albatross Stations 3016 and 3017, in 76 and 58 fathoms.**Genus 798. *ABOMA* Jordan & Starks.***Aboma* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 497 (*etheostoma*).**2534. *Aboma etheostoma* Jordan & Starks.**

Pacific Coast of Mexico.

*Aboma etheostoma* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 498, pl. 50, Mazatlan, Mexico.**2535. *Aboma lucretiæ* (Eigenmann & Eigenmann).**

Pearl Island, Gulf of Panama.

*Gobius lucretiæ* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 57, Pearl Island, Gulf of Panama.**2536. *Aboma chiquita* (Jenkins & Evermann).**

Gulf of California.

*Gobius chiquita* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 146, Guaymas, Sonora.**Genus 799. *MICROGOBIUS* Poey.***Microgobius* Poey, Enumeratio, 127, 1875 (*signatus*).**2537. *Microgobius gulosus* (Girard).**

Coast of Florida to Texas, common north to Indian River.

*Gobius gulosus* Girard, Proc. Ac. Nat. Sci. Phila. 1858, 169, Indianola, Texas.**2538. *Microgobius eulepis* Eigenmann & Eigenmann.**

Fortress Monroe, Virginia.

*Microgobius eulepis* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 69, Fortress Monroe, Virginia.**2539. *Microgobius thalassinus* Jordan & Gilbert.**

Charleston Harbor.

*Gobius thalassinus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 612, Charleston Harbor, South Carolina.**2540. *Microgobius signatus* Poey.**

West Indies; common in Cuba.

*Microgobius signatus* Poey, Enumeratio, 127, pl. 5, fig. 3, 1875, Cuba.**Genus 800. *ZALYPNUS* \* Jordan & Evermann.***Zalypnus* Jordan & Evermann, new genus (*emblematicus*).**2541. *Zalypnus cyclolepis* (Gilbert).**

Lower California.

*Microgobius cyclolepis* Gilbert, Proc. U. S. Nat. Mus. 1891, 74, Lower California.**2542. *Zalypnus emblematicus* (Jordan & Gilbert).**

Panama.

*Gobius emblematicus* Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 330, Bay of Panama.**Genus 801. *EUCYCLOGOBIUS* Gill.***Eucyclogobius* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 279 (*newberryi*).**2543. *Eucyclogobius newberryi* (Girard).**

Streams of California, in small brooks near the sea; locally common in San Luis Obispo Creek.

*Gobius newberryi* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 136, Tomales Bay.\* Distinguished from *Microgobius* by its half-naked body.



## REPORT OF COMMISSIONER OF FISH AND FISHERIES.

### Genus 802. *LEPIDOGOBIOUS* Gill.

*Lepidogobius* Gill, Ann. Lyr. Nat. Hist. N. Y., VII, 1859, 14 (*lepidus*).

#### 2544. *Lepidogobius lepidus* (Girard).

Pacific Coast of North America, from Vancouver Island to Lower California; rather deep water off San Francisco Bay.

*Gobius gracilis* Girard, Proc. Ac. Nat. Sci. Phila. 1854, San Francisco.

### Genus 803. *GILlichthys* Cooper.

*Gillichthys* Cooper, Proc. Cal. Ac. Sci. 1863, 100 (*mirabilis*).

#### 5. *Gillichthys mirabilis* Cooper. Long-jawed Goby.

Pacific Coast of North America, from San Francisco to Guaymas.

*Gillichthys mirabilis* Cooper, Proc. Cal. Ac. Sci. 1863, 100, San Diego Bay.

#### *Gillichthys detrusus* Gilbert & Scofield.

Horseshoe Bend, near mouth of Colorado River, in Mexico.

*Gillichthys detrusus* Gilbert & Scofield ms., 1896, near mouth of Colorado River.

### Genus 804. *QUIETULA* Jordan & Evermann.

*Quietula* Jordan & Evermann, Proc. Cal. Ac. Sci. 1895, 839 (*y-cauda*).

#### 2547. *Quietula y-cauda* (Jenkins & Evermann).

Pacific Coast of North America, from Guaymas to Vancouver Island.

*Gillichthys y-cauda* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 167, Guaymas, Sonora.

### Genus 805. *ILYPHUS*\* Jordan & Evermann.

*Ilypnus* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*gilberti*).

#### 2548. *Ilypnus gilberti* (Eigenmann & Eigenmann).

San Diego Bay and southward; abundant at Magdalena Bay, Conception Bay, and St. Georges Bay in the Gulf of California.

*Lepidogobius gilberti* Eigenmann & Eigenmann, Proc. U. S. Nat. Mus. 1888, 464, San Diego Bay, California.

### Genus 806. *CLEVELANDIA* Eigenmann & Eigenmann.

*Clevelandia* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 73 (*longipinnis* — *rosea*).

#### 2549. *Clevelandia ios* (Jordan & Gilbert).

Puget Sound and neighboring waters.

*Gobiosoma ios* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 437, Saanich Arm, Vancouver Island.

#### 2550. *Clevelandia rosea* Jordan & Evermann.

San Diego Bay.

*Clevelandia rosea* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 229, San Diego; after *Clevelandia longipinnis* Eigenmann & Eigenmann, not Steindachner.

### Genus 807. *EVERMANNIA* Jordan.

*Evermannia* Jordan, Proc. Cal. Ac. Sci., IV, series 2, 1895, 592 (*zosterura*).

#### 2551. *Evermannia longipinnis* (Steindachner)

Gulf of California.

*Gobiosoma longipinnis* Steindachner, Ichth. Beitr., VIII, 27, 1879, Los Animas Island, Gulf of California.

#### 2552. *Evermannia zosterura* (Jordan & Gilbert).

Pacific Coast of Mexico at Mazatlan, Mexico.

*Gobiosoma zosterurum* Jordan & Gilbert, Proc. U. S. N. M. 1881, 361, Mazatlan.

### Genus 808. *GOBIOSOMA* Girard.

*Gobiosoma* Girard, Proc. Ac. Nat. Sci. Phila. 1858, 169 (*alepidotus*).

#### 2553. *Gobiosoma histrio* Jordan.

Known only from the Gulf of California, at Guaymas.

*Gobiosoma histrio* Jordan, Proc. U. S. Nat. Mus. 1881, 260, Guaymas, Mexico.

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\* Distinguished from *Clevelandia* by the presence of flaps on the shoulder girdle.





**2554. *Gobiosoma molestum* Girard.**

Gulf Coast of United States, from Key West to Texas, and south to Bahia.  
*Gobiosoma molestum* Girard, Proc. Ac. Nat. Sci. Phila. 1858, 169, Indianola, Texas.

**2555. *Gobiosoma bosci* (Lacépède).**

Atlantic Coast of United States, Cape Cod to Florida.  
*Gobius bosci* Lacépède, Hist. Nat. Poiss., II, 555, pl. 16, fig. 1, 1798, Charleston, South Carolina.

**2556. *Gobiosoma crescentale* Gilbert.**

Gulf of California.  
*Gobiosoma crescentalis* Gilbert, Proc. U. S. Nat. Mus. 1891, 557, Gulf of California, at Albatross Station 2825.

**2557. *Gobiosoma multifasciatum* Steindachner.**

West Indies; known from Cuba, St. Thomas, and the Lesser Antilles.  
*Gobiosoma multifasciatum* Steindachner, Ichth. Beitr., v, 183, 1870, Lesser Antilles.

**Genus 809. BARBULIFER Eigenmann & Eigenmann.**

*Barbulifer* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 70 (*papillosus*).

**2558. *Barbulifer ceuthæcus* (Jordan & Gilbert).**

About Key West, Florida.  
*Gobionoma ceuthæcum* Jordan & Gilbert, Proc. U. S. N. M. 1884, 29, Key West, Florida.

**Genus 810. TYPHLOGOBIUS Steindachner.**

*Typhlogobius* Steindachner, Ichth. Beitr., VIII, 24, 1879 (*californiensis*).

**2559. *Typhlogobius californiensis* Steindachner. *Blind Goby of Point Loma; Pink-fish.***

Coast of Lower California, from San Diego southward to Cerros Island; especially common at Point Loma.  
*Typhlogobius californiensis* Steindachner, Ichth. Beitr., VIII, 24, 1879, False Bay, San Diego, California.

**Genus 811. TYNTLASTES Günther.**

*Tyntlastes* Günther, Proc. Zool. Soc. Lond. 1862, 193 (*sagitta*).

**2560. *Tyntlastes brevis* (Günther).**

Panama.  
*Amblyopus brevis* Günther, Proc. Zool. Soc. Lond. 1864, 151, Panama.

**2561. *Tyntlastes sagitta* (Günther).**

Coast of Lower California.  
*Amblyopus sagitta* Günther, Proc. Zool. Soc. Lond. 1862, 193, "California," probably from Lower California.

**Genus 812. GOBIOIDES Lacépède.**

*Gobioides* Lacépède, Hist. Nat. Poiss., II, 580, 1800 (*broussonnetii*).

**2562. *Gobioides broussonnetii* Lacépède.**

West Indies to Brazil; once taken near New Orleans.  
*Gobioides broussonnetii* Lacépède, Hist. Nat. Poiss., II, 280, 1798, probably from Surinam, "Given by Holland to France."

**2563. *Gobioides peruanus* (Steindachner).**

Shores of Ecuador and Peru.  
*Amblyopus peruanus* Steindachner, Fisch-Fauna des Cauca und Flüsse bei Guayaquil, 42, 1880, Guayaquil.

**Genus 813. CAYENNIA Sauvage.**

*Cayennia* Sauvage, Bull. Sci. Philom., series 7, IV, 1880, 57 (*guichenoti*).

**2564. *Cayennia guichenoti* Sauvage.**

Cayenne, French Guiana.  
*Cayennia guichenoti* Sauvage, Bull. Soc. Philom., series 7, IV, 1880, 57, Cayenne.

OF COMMISSIONER OF FISH AND FISHERIES.

Group TRACHINOIDEI. The Trachinoid Fishes.

Family CLXXXVII. MALACANTHIDÆ. The Blanquilloes.

Genus 814. MALACANTHUS Cuvier.

*Malacanthus* Cuvier, Règne Animal, ed. 2, II, 205, 1829 (*plumieri*).

2565. *Malacanthus plumieri* (Bloch). *Matajuelo Blanco*.

West Indies.

*Coryphæna plumieri* Bloch, Ichth., v, 119, pl. 175, 1787, Martinique; from a drawing by Plumier.

Genus 815. CAULOLATILUS Gill.

*Caulolatilus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 240 (*chrysops*).

2566. *Caulolatilus princeps* (Jenyns). *Blanquillo; Whitefish*.

Rocky islands of the Pacific Coast, from Monterey southward to the Galapagos; abundant about Santa Barbara Islands.

*Latilus princeps* Jenyns, Zool. Beagle, Fishes, 52, 1840, Chatham Island, Galapagos Archipelago.

2567. *Caulolatilus microps* Goode & Bean.

Gulf of Mexico.

*Caulolatilus microps* Goode & Bean, Proc. U. S. Nat. Mus. 1878, 43, off Pensacola, Florida.

2568. *Caulolatilus cyanops* Poey. *Blanquillo*.

Coast of Cuba.

*Caulolatilus cyanops* Poey, Repertorio, 311, 1867, Cuba.

Genus 816. LOPEHOLATILUS Goode & Bean.

*Lopholatilus* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 205 (*chamaeleonticeps*).

2569. *Lopholatilus chamaeleonticeps* Goode & Bean. *Tiglet*.

Deep waters of the western Atlantic.

*Lopholatilus chamaeleonticeps* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 205; 80 miles S. by E. of Noman's Land, 40° N., 70° W., in 84 fathoms.

Family CLXXXVIII. OPISTHOGNATHIDÆ. The Jawfishes.

Genus 817. OPISTHOGNATHUS Cuvier.

*Opisthognathus* Cuvier, Règne Animal, ed. 2, II, 240, 1829 (*sonneratii*).

2570. *Opisthognathus lonchurum* Jordan & Gilbert.

Gulf of Mexico, in deep water; two specimens known, taken from the stomach of a red snapper at Pensacola, Florida.

*Opisthognathus lonchurus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 290, Snapper Banks, off Pensacola, Florida.

2571. *Opisthognathus punctatum* Peters.

West Coast of Mexico, Mazatlan.

*Opisthognathus punctata* Peters, Berliner Monatsberichte, 1869, Mazatlan.

2572. *Opisthognathus macrognathum* Poey.

Florida Keys to Cuba.

*Opisthognathus macrognathus* Poey, Memorias, II, 284, 1860, Cuba.

2573. *Opisthognathus ommatum* Jenkins & Evermann.

Gulf of California at Bay of Guaymas

*Opisthognathus ommata* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 153, Guaymas, Sonora.

Genus 818. GNATHYPOPS Gill.

*Gnathypops* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 241 (*marillosus*).

2574. *Gnathypops scopis* Jenkins & Evermann.

Gulf of California at Guaymas.

*Gnathypops scopis* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 152, Guaymas, Sonora.



*Smectophaps* <sup>*neglecta*</sup> *gibbata* J. G. S.  
San Luis Gonzales P. C.

**2575. *Gnathypops maxillosus* (Poey).**

Cuba, north to Garden Key, Florida.

*Opisthognathus maxillosus* Poey, *Memorias*, II, 286, 1860, Cuba.**2576. *Gnathypops macrops* (Poey).**

Coast of Cuba.

*Opisthognathus macrops* Poey, *Memorias*, II, 287, 1860, coast of Cuba.**2577. *Gnathypops cuvieri* (Valenciennes).**

Bahia.

*Opisthognathus cuvieri* Valenciennes, *Hist. Nat. Poiss.*, XI, 504, 1836, Bahia.**2578. *Gnathypops rhomaleus* (Jordan & Gilbert).**

Gulf of California.

*Opisthognathus rhomaleus* Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1881, 276, Santa Maria Cove, Lower California.**2579. *Gnathypops mystacinus* Jordan.**Gulf of Mexico; known from the Pensacola "Snapper Banks," from stomachs of red snappers (*Neomænis aya*).*Gnathypops mystacinus* Jordan, *Proc. U. S. Nat. Mus.* 1884, 37, Snapper Banks, off Pensacola, Florida.**Genus 819. *LONCHOPISTHUS* Gill.***Lonchopisthus* Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 241 (*micrognathus*).**2580. *Lonchopisthus micrognathus* (Poey).**

Cuba.

*Opisthognathus micrognathus* Poey, *Memorias*, II, 287, 1860, Cuba.**Family CLXXXIX. BATHYMASTERIDÆ.****Genus 820. *BATHYMASTER* Cope.***Bathymaster* Cope, *Proc. Amer. Philos. Soc.* 1873, 31 (*signatus*).**2581. *Bathymaster signatus* Cope.**

Shores of Alaska.

*Bathymaster signatus* Cope, *Proc. Amer. Phil. Soc.* 1873, 31, near Sitka, Alaska.**Genus 821. *RONQUILUS* Jordan & Starks.***Ronquilus* Jordan & Starks, *Proc. Cal. Ac. Sci.* 1895, 838 (*jordani*).**2582. *Ronquilus jordani* (Gilbert).**

Alaska to Puget Sound.

*Bathymaster jordani* Gilbert, *Proc. U. S. Nat. Mus.* 1888, 554, Elliott Bay at Seattle; Alaska.**Genus 822. *RATHBUNELLA* Jordan & Evermann.***Rathbunella* Jordan & Evermann, *Fishes N. and M. Amer.*, 1896 (*hypoplectus*).**2583. *Rathbunella hypoplecta* (Gilbert).**

Coast of California off the Santa Barbara Islands.

*Bathymaster hypoplectus* Gilbert, *Proc. U. S. Nat. Mus.* 1890, 97, coast of California, south of Point Conception, at Albatross Station 2944.**Family CXC. CHIASMODONTIDÆ. The Black Swallowers.****Genus 823. *CHIASMODON* Johnson.***Chiasmodon* Johnson, *Proc. Zool. Soc. Lond.* 1863, 408 (*niger*).**2584. *Chiasmodon niger* Johnson.**

Deep waters of the Atlantic; taken at Madeira and off Massachusetts coast.

*Chiasmodon niger* Johnson, *Proc. Zool. Soc. Lond.* 1863, 408, Madeira.



Genus 824. *PSEUDOSCOPELUS* Lütken.

*Pseudoscopelus* Lütken, *Spolia Atlantica*, Scopelini, 64, 1892 (*scriptus*).

2585. *Pseudoscopelus scriptus* Lütken.

Old Bahama Straits.

*Pseudoscopelus scriptus* Lütken, *Spolia Atlantica*, Scopelini, 64, 1892, Old Bahama Straits.

Family CXCI CHÆMICHTHYIDÆ.

Genus 825. *HYPSICOMETES* Goode.

*Hypsicometes* Goode, Proc. U. S. Nat. Mus. 1890, 347 (*gobioides*).

2586. *Hypsicometes gobioides* Goode.

Gulf Stream.

*Hypsicometes gobioides* Goode, Proc. U. S. Nat. Mus. 1890, 348, Gulf Stream, at Albatross Station 871, 40° 2' 54" N., 70° 23' 40" W., in 115 fathoms.

Family CXCH TRICHODONTIDÆ. The Sand-Fishes.

Genus 826. *TRICHODON* Steller.

*Trichodon* Steller, in Tilesius, Mém Acad. St. Petersburg, iv, 1813, 468 (*trichodon*).

2587. *Trichodon trichodon* (Tilesius).

Herendeen Bay and elsewhere in Bering Sea, and south to coast of Oregon.

*Trachinus trichodon* Tilesius, Mém. Acad. St. Petersb. 1813, 466, Bering Sea.

Genus 827. *ARCTOSCOPIUS*\* Jordan & Evermann.

*Arctoscopus* Jordan & Evermann, new genus (*japonicus*).

2588. *Arctoscopus japonicus* (Steindachner).<sup>7</sup>

Strietok, in the Sea of Japan, and Sitka, Alaska.

*Trichodon japonicus* Steindachner, Ichth. Beitr., x, 4, 1881, Strietok and Sitka.

Family CXCH. DACTYLOSCOPIDÆ. The Sand Star-Gazers.

Genus 828. *GILLELLUS* Gilbert.

*Gillellus* Gilbert, Proc. U. S. Nat. Mus. 1890, 98 (*semicinetus*).

2589. *Gillellus semicinetus* Gilbert.

Gulf of California; also off the Florida coast.

*Gillellus semicinetus* Gilbert, Proc. U. S. N. M. 1890, 98, near mouth of Gulf of California, at Albatross Stations 2827, 24° 11' 45" N., 109° 55' W., and 2829, 22° 52' N., 109° 55' W., in 10 and 31 fathoms.

2590. *Gillellus arenicola* Gilbert.

Cape San Lucas, Lower California.

*Gillellus arenicola* Gilbert, Proc. U. S. Nat. Mus. 1890, 99, Cape San Lucas.

2591. *Gillellus ornatus* Gilbert

Gulf of California.

*Gillellus ornatus* Gilbert, Proc. U. S. Nat. Mus. 1891, 558, Gulf of California.

Genus 829. *DACTYLOSCOPUS* Gill.

*Dactyloscopus* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 132 (*tridigitatus*).

Subgenus DACTYLOSCOPI'S GILL.

2592. *Dactyloscopus pectoralis* Gill.

Cape San Lucas, Lower California.

*Dactyloscopus pectoralis* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 267, Cape San Lucas, Lower California.

\* Distinguished from *Trichodon* by the short spinous dorsal.

Sturup Island.



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**2593. *Dactyloscopus tridigitatus* Gill.**

West Indies, north to Key West.

*Dactyloscopus tridigitatus* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 132, Barbados.**2594. *Dactyloscopus poeyi* Gill.**

Cuba.

*Dactyloscopus poeyi* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 266, Cuba.**2595. *Dactyloscopus lunaticus* Gilbert.**

Gulf of California.

*Dactyloscopus lunaticus* Gilbert, Proc. U. S. N. M. 1890, 99, Gulf of California.Subgenus **ESLOSCOPUS** Jordan & Evermann.*Esloscopus* Jordan & Evermann, new subgenus (*zelotes*). N<sup>1</sup>.**2596. *Dactyloscopus zelotes* Jordan & Gilbert.**

Panama.

*Dactyloscopus zelotes* Jordan & Gilbert new species, Panama.**Genus 830. *DACTYLAGNUS* Gill.***Dactylagnus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 505 (*mundus*).**2597. *Dactylagnus mundus* Gill.**

Carmen Island, Gulf of California.

*Dactylagnus mundus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 505, Carmen Island, Gulf of California.**Genus 831. *MYXODAGNUS* Gill.***Myxodagnus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 269 (*opercularis*).**2598. *Myxodagnus opercularis* Gill.**

Cape San Lucas, Lower California.

*Myxodagnus opercularis* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 270, Cape San Lucas, Lower California.**Family CXCIV. URANOSCOPIDÆ. The Star-Gazers.****Genus 832. *ASTROSCOPUS* (Brevoort) Gill. *Star-gazers*.***Astroscopus* (Brevoort) Gill, Proc. Ac. Nat. Sci. Phila. 1860, 20 (*anoplus*).**2599. *Astroscopus y-græcum* (Cuvier & Valenciennes).**

South Atlantic Coast, from Cape Hatteras to the Caribbean Sea.

*Uranoscopus y-græcum* Cuvier & Valenciennes, Hist. Nat. Poiss., III, 308, 1829, origin unknown.**2600. *Astroscopus zephyrius* Gilbert & Starks.**

Magdalena Bay, Lower California.

*Astroscopus zephyrius* Jordan & Starks, Proc. U. S. Nat. Mus. 1896, Magdalena Bay, Lower California.**2601. *Astroscopus guttatus* Abbott.**

Atlantic Coast of the United States, from Long Island to Virginia; not known south of Cape Hatteras.

*Astroscopus guttatus* Abbott, Proc. Ac. Nat. Sci. Phila. 1860, 365, Cape May, New Jersey.**Genus 833. *KATHETOSTOMA* Günther.***Kathetostoma* Günther, Cat., II, 231, 1860 (*læve*).**2602. *Kathetostoma averruncus* Jordan & Bollman.**

Pacific Ocean, off coast of Colombia.

*Kathetostoma averruncus* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 163; off coast of Colombia, 8° 57' N., 79° 31' 30" W., at Albatross Station 2800, in 7 fathoms.

\* Subgenus and species based on description of *Dactyloscopus* sp. nov., Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 628; not *D. mundus* Gill, Proc. Ac. Nat. Sci. 1862, 505.

**2603. *Kathetostoma albigutta* Bean.**

Gulf of Mexico.

*Kathetostoma albigutta* Bean, Proc. U. S. Nat. Mus. 1892, 121, Gulf of Mexico, at Albatross Station 2403, 28° 42' 30" N., 85° 29' W.

**Family CXCV. BATRACHOIDIDÆ The Toadfishes.**

**Genus 834. BATRACHOIDES Lacépède.**

*Batrachoides* Lacépède, Hist. Nat. Poiss., II, 451, 1800 ("tau" Lacépède = *surinamensis*).

**2604. *Batrachoides surinamensis* (Bloch & Schneider).**

Coast of Guiana and Brazil.

*Batrachus surinamensis* Bloch & Schneider, Syst. Ichth., 43, 1801, Surinam, from a specimen in the museum of Paris.

**2605. *Batrachoides pacifici* (Günther).**

Panama.

*Batrachus pacifici* Günther, Cat., III, 173, 1861, Panama.

**Genus 835. OPSANUS Rafinesque Toadfishes.**

*Opsanus* Rafinesque, Amer. Monthly Mag. 1817, 203 (*ccrapalus*).

**2606. *Opsanus tau* (Linnaeus). Toadfish.**

Atlantic Coast from Massachusetts to the West Indies.

*Gadus tau* Linnaeus, Syst. Nat., ed. XII, 439, 1766, Charleston, South Carolina.

**2607. *Opsanus pardus* (Goode & Bean). *Sargo*.**

Gulf of Mexico.

*Batrachus tau pardus* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 336, Pensacola Snapper Banks.

**Genus 836. PORICHTHYS Girard. Midshipmen.**

*Porichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 141 (*notatus*).

**2608. *Porichthys porosissimus* Cuvier & Valenciennes. *Bagre Sapo*.**

South Carolina to Montevideo; Pensacola.

*Batrachus porosissimus* Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 501, 1837, Surinam, Cayenne, Rio Janeiro, and St. Catherine.

**2609. *Porichthys notatus* Girard. *Singing-fish*; *Midshipman*; *Cabezon*; *Sapo*.**

Pacific Coast from Puget Sound to Panama.

*Porichthys notatus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 141, San Francisco.

**2610. *Porichthys margaritatus* (Richardson).**

Pacific Coast of tropical America.

*Batrachus margaritatus* Richardson, Voyage of the Sulphur, Fishes, 1845-1867, Pacific Coast of Central America.

**Genus 837. THALASSOPHRYNE Gunther. Poison Toadfishes.**

*Thalassophryne* Gunther, Cat., III, 174, 1861 (*maculosa*).

**2611. *Thalassophryne maculosa* Günther.**

Caribbean Sea.

*Thalassophryne maculosa* Gunther, Cat., III, 175, 1861, Puerto Cabello, near Aspinwall.

**2612. *Thalassophryne reticulata* (Günther).**

Panama.

*Thalassophryne reticulata* Gunther, Proc. Zool. Soc. Lond. 1864, 150, 155, Panama.

**2613. *Thalassophryne dowi* Jordan & Gilbert.**

Pacific Coast of North America, from Punta Arenas to Panama.

*Thalassophryne dowi* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1887, 388, Punta Arenas.

*Ponchulus plectodon* Joly.  
Joly.

The type of *perovissimus* has A. 33.  
Sewk + Sadant. 32 in Delalande.  
error in Oct. hard to count about 25 + 26 in  
some st

~~Sadant~~  
*Thalassodactylus* n. subgenus Joly



Group **BLENNIOIDEI**. The Blennioid Fishes.Family **CXCVI. BLENNIIDÆ**. The Blennies.Genus 838. **ENNEANECTES** Jordan & Evermann.*Enneanectes* Jordan & Evermann, Proc. Cal. Ac. Sci. 1895, 501 (*carminale*).2614. *Enneanectes carminalis* (Jordan & Gilbert).

Mazatlan, Mexico.

Swan J. ~~Ambruster~~ *Reyes**Tripterygium carminale* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 362, Mazatlan.Genus 839. **HETEROSTICHUS** Girard.*Heterostichus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 143 (*rostratus*).2615. *Heterostichus rostratus* Girard.

Coast of California from San Francisco to San Diego.

*Heterostichus rostratus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 143, San Diego, California.Genus 840. **GIBBONSIA** Cooper.*Gibbonsia* Cooper, Proc. Cal. Ac. Sci., III, 1864, 109 (*elegans*).2616. *Gibbonsia evides* (Jordan & Gilbert). *Kelpfish*; *Senorita*.

Coast of California, south to Point Conception.

*Clinus evides* Jordan & Gilbert, Synopsis, 763, 1883, Monterey, California.2617. *Gibbonsia elegans* (Cooper).

Coast of southern California; Point Conception to Todos Santos.

*Myxodes elegans* Cooper, Proc. Cal. Ac. Sci., III, 1864, 109, San Diego; Santa Barbara.Genus 841. **NEOCLINUS** Girard.*Neoclinus* Girard, U. S. Pac. R. R. Surv., Fish., x, 114, 1858 (*blanchardi*).Subgenus **NEOCLINUS** Girard.2618. *Neoclinus blanchardi* Girard.

Coast of California, Monterey to San Diego.

*Neoclinus blanchardi* Girard, U. S. Pac. R. R. Surv., Fish., 114, 1858, off San Diego, California.Subgenus **PTEROGNATHUS** Girard.*Pterognathus* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 57 (*satiricus*).2619. *Neoclinus satiricus* Girard.

Coast of California, from Monterey to Santa Barbara.

*Neoclinus satiricus* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 57, Monterey Bay.Genus 842. **MALACOTENUS** Gill.*Malacotenus* Gill, Proc. Ac. Nat. Sci. Phila. 1860, 103 (*delalandi*).2620. *Malacotenus ocellatus* (Steindachner).

Bahama Islands.

*Clinus ocellatus* Steindachner, Ichth. Beitr., v, 182, 1876, Bahama Islands.2621. *Malacotenus varius* (Poey).

Cuba.

*Myxodes varius* Poey, Enumeratio, 1, 132, 5, fig. 2, 1875, Havana.2622. *Malacotenus macropus* (Poey).

Cuba.

*Myxodes macropus* Poey, Synopsis, III, 99, 1868, Havana.2623. *Malacotenus lugubris* (Poey).

Cuba.

*Myxodes lugubris* Poey, Enumeratio, 131, 1875, Cuba.2624. *Malacotenus gilli* (Steindachner).

Barbados.

*Clinus gilli* Steindachner, Ichth. Notizen, vi, 46, 1867, Barbados.



- 2625. *Malacootenus bimaculatus* (Steindachner).**  
Small rocky islands north of Cuba.  
*Clinus bimaculatus* Steindachner, Ichth. Beitr., v, 180, 1878, islands off Cuba.
- 2626. *Malacootenus delalandi* (Cuvier & Valenciennes).**  
Coast of Brazil and the west coast of Mexico.  
*Clinus delalandi* Cuvier & Valenciennes, Hist. Nat. Poiss., 378, 1836, Brazil.
- 2627. *Malacootenus versicolor* (Poey).**  
Cuba.  
*Myzodes versicolor* Poey, Enumeratio, i, 131, 5, fig. 1, 1875, Cuba.
- 2628. *Malacootenus biguttatus* (Cope).**  
New Providence, Bahamas.  
*Labrisomus biguttatus* Cope, Trans. Amer. Philos. Soc. Phila. 1873, 473, New Providence, Bahamas.
- Genus 843. LABRISOMUS Swainson.**  
*Labrisomus* Swainson, Nat. Hist. Classen. Fishes, ii, 277, 1839 (*pectinifer*).
- 2629. *Labrisomus herminier* (LeSueur).**  
St. Bartholomew; West Indies.  
*Blennius herminier* LeSueur, Jour. Ac. Nat. Sci. Phila., iv, 1834, 381, St. Bartholomew.
- 2630. *Labrisomus nuohipinnis* (Quoy & Gaimard).**  
West Indies; South Atlantic Coast.  
*Clinus nuohipinnis* Quoy & Gaimard, Voy. Uranin, Zool., 1824, Brazil.
- 2631. *Labrisomus xanti* Gill.**  
La Paz, Lower California.  
*Labrisomus xanti* Gill, Proc. Ac. Nat. Sci. Phila. 1880, 107, Cerro Blanco, Cape San Lucas.
- 2632. *Labrisomus bucciferus* Poey.**  
Cuba.  
*Labrisomus bucciferus* Poey, Synopsis, 399, 1868, Cuba.
- 2633. *Labrisomus microlepidotus* Poey.**  
Cuba.  
*Labrisomus microlepidotus* Poey, Anal. Soc. Epe. Hist. Nat., xix, 246, 1, 8, fig. 2, 1880, Cuba.
- Genus 844. MNIERPES\* Jordan & Evermann.**  
*Mnierpes* Jordan & Evermann, new genus (*macrocephalus*).
- 2634. *Mnierpes macrocephalus* (Günther).**  
Pacific Coast of Central America; Panama.  
*Clinus macrocephalus* Günther, Cat., iii, 267, 1861, Pacific Coast of Central America.
- Genus 845. GOBIOCLINUS Gill.**  
*Gobioclinus* Gill, Proc. Ac. Nat. Sci. Phila. 1860, 102 (*gobio*).
- 2635. *Gobioclinus gobio* (Cuvier & Valenciennes).**  
Lesser Antilles.  
*Clinus gobio* Cuvier & Valenciennes, Hist. Nat. Poiss., xi, 395, 1836, Lesser Antilles.
- Genus 846. STARKSIA Jordan & Evermann.**  
*Starksia* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 231 (*cremnobates*).
- 2636. *Starksia cremnobates* (Gilbert).**  
Gulf of California.  
*Labronomus cremnobates* Gilbert, Proc. U. S. N. M. 1890, 100, Gulf of California.

\* Distinguished from *Labrisomus* by the elongate form.



*Ancheroplectus grandicomis*  
Rosen.  
Andros.  
Zool Mus Lund 1911.

Type of Tekla Nichols  
Miami      copied Sept 19. 1922.  
                 (no copy in D)

**Genus 847. CRYPTOTREMA Gilbert.***Cryptotrema* Gilbert, Proc. U. S. Nat. Mus. 1890, 101 (*corallinum*).**2637. *Cryptotrema corallinum* Gilbert.**

Coast of California, south of Point Conception.

*Cryptotrema corallinum* Gilbert, Proc. U. S. Nat. Mus. 1890, 101, coast of California, south of Point Conception.**Genus 848. EXERPES Jordan & Evermann.***Exerpes* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 232 (*asper*).**2638. *Exerpes asper* (Jenkins & Evermann).**

Guaymas, Mexico.

*Auchenopterus asper* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 154, Guaymas, Mexico.**Genus 849. AUCHENOPTERUS Günther.***Auchenopterus* Günther, Cat., III, 275, 1861 (*monophthalmus*).**2639. *Auchenopterus altivelis* (Lockington).**

La Paz, Lower California.

*Cremnobates altivelis* Lockington, Proc. Ac. Nat. Sci. Phila. 1881, 116, La Paz, Lower California.**2640. *Auchenopterus marmoratus* (Steindachner).**

Florida Keys to Cuba; Key West.

*Cremnobates marmoratus* Steindachner, Ichth. Beitr., v, 174, pl. 12, fig. 6, 1876, near Cuba.**2641. *Auchenopterus affinis* (Steindachner).**

West Indies; Key West; St. Thomas.

*Cremnobates affinis* Steindachner, Ichth. Beitr., v, 178, 1876, St. Thomas.**2642. *Auchenopterus monophthalmus* Günther.**

Gulf of California to Panama.

*Auchenopterus monophthalmus* Günther, Cat., III, 275, 1861, Panama.**2643. *Auchenopterus integripinnis* (Rosa Smith).**

Coast of California, and southward to Todos Santos.

*Cremnobates integripinnis* Rosa Smith, Proc. U. S. Nat. Mus. 1880, 147, La Jolla, near San Diego.**2644. *Auchenopterus nigripinnis* (Steindachner).**

Barbados.

*Clinus nigripinnis* Steindachner, Ichth. Notizen, vi, 46, 1867, Barbados.**2645. *Auchenopterus fasciatus* (Steindachner).**

Florida Straits; north to Key West.

*Cremnobates fasciatus* Steindachner, Ichth. Beitr., v, 176, 1876, Florida Straits.**2646. *Auchenopterus nox* (Jordan & Gilbert).**

Key West.

*Cremnobates nox* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 30, Key West.**Genus 850. PARACLINUS Mocquard.***Paraclinus* Mocquard, Bull. Soc. Philom. Paris 1886, 41 (*chaperi*).**2647. *Paraclinus chaperi* Mocquard.**

Bay of Quanta, near Barcelona, in Venezuela.

*Paraclinus chaperi* Mocquard, Bull. Soc. Philom. Paris 1886, 41, Bay of Quanta, Venezuela.**Genus 851. BLENNIUS (Artedi) Linnaeus. *Blennies*.***Blennius* (Artedi) Linnaeus, Syst. Nat., ed. x, 256, 1758 (*galerita*).**Subgenus LIPOPHRYS Gill.***Lipophrys* Gill, Amer. Nat., June, 1896, 498 (*pholis*).**2648. *Blennius carolinus* (Cuvier & Valenciennes).**

South Carolina.

*Pholis carolinus* Cuv. & Val., Hist. Nat. Poiss., xi, 276, 1836, Carolina.

Subgenus *BLENNIUS* (Artedii) Linnaeus.2649. *Blennius fucorum* Cuvier & Valenciennes.

Off the Azores; also off New York.

*Blennius fucorum* Cuvier & Valenciennes, Hist. Nat. Poiss., xi, 263, 1836, 240 miles south of the Azores.2650. *Blennius stearnsi* Jordan & Gilbert.

Gulf of Mexico.

*Blennius stearnsi* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 300, Pensacola Snapper Banks.2651. *Blennius favosus* Goode & Bean.

Gulf of Mexico; Garden Key, Florida.

*Blennius favosus* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 410, Garden Key, Florida.2652. *Blennius marmoreus* Poey.

Cuba.

*Blennius marmoreus* Poey, Enumeratio, 130, 1875, Cuba.2653. *Blennius truncatus* (Poey).

Cuba.

*Blennius truncatus* Poey, Memorias, ii, 424, 1861, Cuba.2654. *Blennius vinctus* Poey.

Cuba.

*Blennius vinctus* Poey, Repertorio, 243, 1867, Havana.2655. *Blennius cristatus* Linnaeus.

Tropical parts of the Atlantic.

*Blennius cristatus* Linnaeus, Syst. Nat., ed. x, 256, 1758, Indica; after GronowGenus 352. *SCARTELLA* Jordan.*Scartella* Jordan, Proc. U. S. Nat. Mus. 1886, 50 (*microstoma*).2656. *Scartella microstoma* (Jordan).

Cuba.

*Blennius microstomus* Poey, Memorias, ii, 288, 1860, Cuba.Genus 353. *HYPLEUROCHILUS* Gill.*Hypleurochilus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 168 (*geminatus*).2657. *Hypleurochilus geminatus* (Wood).

South Atlantic and Gulf coasts of United States.

*Blennius geminatus* Wood, Jour. Ac. Nat. Sci. Phila., iv, 1824, 278, Charleston, South Carolina.Genus 354. *HYPSOBLENNIUS* Gill.*Hypsoblennius* Gill, Cat. Fishes East Coast U. S., 20, 1861 (*hensli*).2658. *Hypsoblennius gilberti* (Jordan).

California, from Point Conception southward to Todos Santos.

*Isesthes gilberti* Jordan, Proc. U. S. Nat. Mus. 1882, 349, Santa Barbara, Cal.2659. *Hypsoblennius gentilis* (Girard).

Coast of California from Monterey to Cape San Lucas.

*Blennius gentilis* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 149, Monterey, Cal.2660. *Hypsoblennius striatus* (Steindachner).

Panama.

*Blennius striatus* Steindachner, Ichth. Beitr., v, 15, 1876, Panama.2661. *Hypsoblennius ionthas* (Jordan & Gilbert).

Pensacola, Florida.

*Isesthes ionthas* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 299, Pensacola.2662. *Hypsoblennius scrutator* Jordan & Gilbert.

South Carolina to Texas.

*Isesthes scrutator* Jordan & Gilbert, Proc. U. S. N. M. 1882, 300, Pensacola, Fla.

<sup>C+U</sup>  
*Blennius pelicornis* Harman.  
Nat Hist Bull. Univ of Dorra  
Tortugas, Coll. Nutting, 1896

<sup>1</sup>  
*Homocidus canlopus* Silvest

*Chaenodes novemlineatus* Wood

*C. quadrag.* is ♀ of *boquianus*

*Blennius fabbri* Nichols = yg. ♂ *boquianus*  
ju

**2663. *Hypsoblennius punctatus* (Wood).**

Coast of North and South Carolina.

*Blennius punctatus* Wood, Jour. Ac. Nat. Sci. Phila., iv, 1824, 279, Charleston, South Carolina.**2664. *Hypsoblennius brevipinnis* (Günther).**

Pacific Coast of Mexico, from Mazatlan to Panama.

*Blennius brevipinnis* Günther, Cat., iii, 226, 1861, west coast Central America.**Genus 855. CHASMODES Cuvier & Valenciennes.***Chasmodes* Cuv. & Val., Hist. Nat. Poiss., xi, 295, 1836 (*bosquianus*).**2665. *Chasmodes jenkinsi* Jordan & Evermann.**

Gulf of California.

*Chasmodes jenkinsi* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, Bay of Guaymas, Sonora.**2666. *Chasmodes saburræ* Jordan & Gilbert.**

Pensacola Bay, Florida.

*Chasmodes saburræ* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 298, Pensacola, Florida.**2667. *Chasmodes bosquianus* (Lacépède).**

New York to Florida.

*Blennius bosquianus* Lacépède, Hist. Nat. Poiss., ii, 493, 1800, South Carolina.**2668. *Chasmodes quadrifasciatus* (Wood).**

Probably South Atlantic Coast of United States.

*Pholis quadrifasciatus* Wood, Jour. Ac. Nat. Sci. Phila., iv, 1824, 282, locality unknown, probably South Carolina.**Genus 856. ATOPOCLINUS Vaillant.***Atopoclinus* Vaillant, Bull. Soc. Philom. 1894, 73 (*ringens*).**2669. *Atopoclinus ringens* Vaillant.**

Gulf of California.

*Atopoclinus ringens* Vaillant, Bull. Soc. Philom. 1894, 74, Gulf of California.**Genus 857. RUNULA Jordan & Bollman.***Runula* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 171 (*azalea*).**2670. *Runula azalea* Jordan & Bollman.**

Galapagos Archipelago.

*Runula azalea* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 171, Indefatigable Island, Galapagos Archipelago.**Genus 858. SCARTES\* Jordan & Evermann.***Scartes* Jordan & Evermann, new genus (*rubropunctatus*).**2671. *Scartes rubropunctatus* (Cuvier & Valenciennes).**

Coast of Peru and Chile, north to Panama.

*Salarias rubropunctatus* Cuvier & Valenciennes, Hist. Nat. Poiss., xi, 348, 1836, Juan Fernandez.**Genus 859. RUPISCARTES Swainson.***Rupiscartes* Swainson, Classn. Fishes, ii, 275, 1839 (*atlanticus*).**2672. *Rupiscartes atlanticus* (Cuvier & Valenciennes).**

Tropical America, on both coasts, north to West Indies and to Todos Santos.

*Salarias atlanticus* Cuvier & Valenciennes, Hist. Nat. Poiss., xi, 321, 1836, Atlantic Ocean.**Genus 860. ENTOMACRODUS Gill.***Entomacrodus* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 168 (*nigricans*).**2673. *Entomacrodus chiostictus* (Jordan & Gilbert).**

Pacific Coast of Mexico.

*Salarias chiostictus* Jordan & Gilbert, Synopsis, 363, 1883, Mazatlan, Mexico.\* Differs from *Salarias (quadripinnis)* in the continuous dorsal; no posterior caudal.



2674. *Entomacrodus margaritaceus* (Poey).

Cuba.

*Salaria margaritaceus* Poey, *Memorias*, 11, 289, 1861, Cuba.

2675. *Entomacrodus decoratus* Poey.

Cuba.

*Entomacrodus decoratus* Poey, *Synopsis*, 398, 1868, Cuba.

2676. *Entomacrodus nigricans* Gill.

West Indies.

*Entomacrodus nigricans* Gill, *Proc. Ac. Nat. Sci. Phila.* 1859, 168, Barbados.

Genus 861. *SALARICHTHYS* Guichenot.

*Salarichthys* Guichenot, *Mém. Soc. Sci. Nat. Cher.*, xiii, 1867, 96 (*textilis*).

2677 *Salarichthys textilis* Quoy & Gaimard.

West Indies, from Bermudas to Brazil.

*Salaria textilis* Quoy & Gaimard, in Cuvier & Valenciennes, *Hist. Nat. Poiss.*, xi, 307, 1836, Ascension Island.

Genus 862. *OPHIOBLENNIUS* Gill.

*Ophioblennius* Gill, *Proc. Ac. Nat. Sci. Phila.* 1860, 103 (*webbi*), substitute for *Blennophis* Valenciennes (*webbi*), not *Blennophis* Swainson, a genus of *Clupea*.

2678. *Ophioblennius webbi* (Valenciennes).

West Indies and Canary Islands.

*Blennophis webbi* Valenciennes, in Webb & Berthelot, *Iles Canaries*, 1836, Canary Islands.

2679. *Ophioblennius steindachneri* Jordan & Evermann.

West coast of Mexico.

*Ophioblennius steindachneri* Jordan & Evermann, *Fishes North and Middle America*, 1896, Mazatlan.

FAMILY CXCVII. *CHAENOPSIDÆ*.

Genus 863. *EMBLEMARIA* Jordan & Gilbert.

*Emblemaria* Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1883, 627 (*niripes*).

2680. *Emblemaria atlantica* Jordan & Evermann.

Gulf of Mexico; Snapper Banks off Pensacola.

*Emblemaria atlantica* Jordan & Evermann, *Fishes North and Middle America*, 1896, Gulf of Mexico.

2681. *Emblemaria nivipes* Jordan & Gilbert.

Pearl Island, near Panama.

*Emblemaria nivipes* Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1883, 627, Pearl Island, near Panama.

Genus 864. *LUCIOBLENNIUS* Gilbert.

*Lucioblennius* Gilbert, *Proc. U. S. Nat. Mus.* 1890, 103 (*alepidotus*).

2682. *Lucioblennius alepidotus* Gilbert.

Gulf of California,

*Lucioblennius alepidotus* Gilbert, *Proc. U. S. N. M.* 1890, 103, Lower California.

Genus 865. *PHOLIDICTHYS* Bleeker.

*Pholidichthys* Bleeker, *Boeroc*, 406, 1857 (*leucotarsa*).

2683 *Pholidichthys anguilliformis* Lockington

Gulf of California.

*Pholidichthys anguilliformis* Lockington, *Proc. Ac. Nat. Sci. Phila.* 1881, 118, San Jose Island, Lower California

Genus 866. *PSEDNOBLENNIUS* Jenkins & Evermann.

*Pseudoblennius* Jenkins & Evermann, *Proc. U. S. N. M.* 1888, 156 (*hypacanthus*).

2684 *Pseudoblennius hypacanthus* Jenkins & Evermann.

Guaymas, Sonora.

*Pseudoblennius hypacanthus* Jenkins & Evermann, *Proc. U. S. Nat. Mus.* 1888, 156, Guaymas, Mexico.

*Emblemaria oculicirris* Jm.

*Stachmenotus teckla* .  
*teckla nichols*  
Mull. Amer. Mus. 1944  
xxx, 70

*Stachmenotus*

**Genus 867. CHÆNOPSIS Gill.***Chænopsis* Gill, Ann. Lyc. Nat. Hist. N. Y., VIII, 1865, 141, pl. 3, fig. 3 (*ocellatus*).**2685. Chænopsis ocellatus Poey.**

Matanzas, Cuba.

*Chænopsis ocellatus* Poey, in Gill, Ann. Lyc. Nat. Hist. N. Y., VIII, 1867, 143, Matanzas, Cuba.**Family CXCVIII. XIPHIIDÆ.****Genus 868. STATHMONOTUS Bean.***Stathmonotus* Bean, Proc. U. S. Nat. Mus. 1888, 191 (*hemphilli*).**2686. Stathmonotus hemphilli Bean.**

Key West, Florida.

*Stathmonotus hemphilli* Bean, Proc. U. S. Nat. Mus. 1888, 191, pl. 13, Key West, Florida.**Genus 869. BRYOSTEMMA Jordan & Williams.***Bryostemma* Jordan & Williams, in Jordan & Evermann, Fishes North and Middle America, 1896 (*nugator*).**2687. Bryostemma polyactcephalum (Pallas).**

Kamchatka to Puget Sound.

*Blennius polyactcephalus* Pallas, Zool. Rosso-Asiat., III, 179, 1811, Kamchatka.**2688. Bryostemma nugator Jordan & Williams.**

Near Seattle, Washington.

*Bryostemma nugator* Jordan & Williams, in Jordan & Evermann, Fishes North and Middle America, 1896, Puget Sound.**Genus 870. BLENNIOPHIDIUM Boulenger.***= Ophiocentrus**Blenniophidium* Boulenger, Proc. Zool. Soc. Lond. 1892, 583 (*petropauli*).**2689. Blenniophidium petropauli Boulenger.**

Kamchatka.

*Blenniophidium petropauli* Boulenger, Proc. Zool. Soc. Lond. 1892, 584, Petropaulovski Harbor, Kamchatka.**Genus 871. APODICHTHYS Girard.***Apodichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 150 (*flavidus*).**2690. Apodichthys flavidus Girard.**

Point Conception to Vancouver Island.

*Apodichthys flavidus* Girard, Proc. Ac. Nat. Sci. 1854, 150, Presidio (San Francisco), California.**2691. Apodichthys univittatus Lockington.**

Gulf of California.

*Apodichthys univittatus* Lockington, Proc. Ac. Nat. Sci. Phila. 1881, 118, Gulf of California.**Genus 872. XERERPES Jordan & Gilbert.***Xererpes* Jordan & Gilbert, Proc. Cal. Ac. Sci. 1895, 846 (*fucorum*).**2692. Xererpes fucorum (Jordan & Gilbert).**

Coast of California.

*Apodichthys fucorum* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 139, Los Pinos Point, near Monterey, California.**Genus 873. ULVICOLA Gilbert & Starks.***Ulvicola* Gilbert & Starks, Proc. U. S. Nat. Mus. 1896 (*sanctæ-rosæ*).**2693. Ulvicola sanctæ-rosæ Gilbert & Starks.**

Santa Rosa Island, coast of California.

*Ulvicola sanctæ-rosæ* Gilbert & Starks, Proc. U. S. Nat. Mus. 1896, Santa Rosa Island, California.

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Genus 874. *PHOLIS* (Gronow) Scopoli.

*Pholis* (Gronow) Scopoli, *Introductio Hist. Nat.* 456, 1777 (*gunnellus*).

2694. *Pholis gunnellus* (Linnaeus). *Gunnell*; *Butter-fish*.

North Atlantic, south to Cape Cod.

*Blennius gunnellus* Linnaeus, *Syst. Nat.*, ed. xii, i, 443, 1766, Atlantic Ocean.

2695. *Pholis fasciatus* (Bloch & Schneider).

Greenland to Alaska.

*Centronotus fasciatus* Bloch & Schneider, 185, pl. 37, fig. 1, 1801.

2696. *Pholis ornatus* (Girard).

San Francisco to Alaska.

*Gunnellus ornatus* Girard, *Proc. Ac. Nat. Sci. Phila.* 1854, 149, Presidio (San Francisco), California.

2697. *Pholis maxillaris* (Bean). = *fasciatus*

St. Paul Island, Alaska.

*Muraenoides maxillaris* Bean, *Proc. U. S. Nat. Mus.* 1881, 147, St. Paul Island, Alaska.

Genus 875. *RHODYMENICHTHYS* Jordan & Evermann.

*Rhodymenichthys* Jordan & Evermann, new genus (*ruberrimus*).

2698. *Rhodymenichthys dolichogaster* (Pallas).

Kamchatka and Aleutian Islands.

*Blennius dolichogaster* Pallas, *Zoogr. Rosso-Asiat.*, iii, 175, 1811, Kamchatka.

2699. *Rhodymenichthys ruberrimus* (Cuvier & Valenciennes).

Bering Sea and neighboring waters; Kuril Islands and Robben Island; also from Copper and Bering islands.

*Gunnellus ruberrimus* Cuvier & Valenciennes, *Hist. Nat. Poiss.*, xiv, 440, Kuril Islands (after Pallas).

2700. *Rhodymenichthys tania* (Pallas). = *fasciatus*

Kuril Islands.

*Blennius tania* Pallas, *Zoogr. Rosso-Asiat.*, iii, 178, 1811, Kuril Islands.

Genus 876. *GUNNELLOPS* Bleeker.

*Gunnellops* Bleeker, 1874 (*roseus*).

2701. *Gunnellops roseus* (Pallas).

Kuril Islands.

*Blennius roseus* Pallas, *Zoogr. Rosso-Asiat.*, iii, 178, 1811, Kuril Islands.

Genus 877. *ASTERNOPTERYX* Ruppell.

*Asternopteryx* Ruppell, in Günther, *Cat.*, iii, 288, 1861 (*gunnelliformis*).

2702. *Asternopteryx gunnelliformis* Ruppell.

Greenland.

*Asternopteryx gunnelliformis* Ruppell, in Günther, *Cat.*, iii, 288, 1861, probably from Greenland, type in Senckenberg Museum.

2703. *Asternopteryx ocellatus* (Tilesius).

Kamchatka.

*Ophidium ocellatus* Tilesius, *Mem. Ac. St. Petersburg.*, ii, 237, 1811, Kamchatka.

Genus 878. *ANOPLARCHUS* Gill.

*Anoplarchus* Gill, *Proc. Ac. Nat. Sci. Phila.* 1861, 261 (*atropurpureus*).

2704. *Anoplarchus atropurpureus* (Kittlitz).

Alaska to San Francisco.

*Ophidium atropurpureum* Kittlitz, *Denkwürd. einer Reise Russ.-Amer.*, i, 225, 1858.

2705. *Anoplarchus alectrolophus* (Pallas).

Island of Talek, Gulf of Peshin.

*Blennius alectrolophus* Pallas, *Zoogr. Rosso-Asiat.*, iii, 171, 1811, island of Talek.

5. *P. pictus* Kner.  
Lump Island

*Pholis fuscescens*

= PHOLIDAPUS Gooden & Bean

*Pholidapus grebnitzii*

~~Antennopleryx~~ is a valid genus spec

?

2706

X. ulvaceus  
= X. chinensis

= Stichaeid

occasional

Opisthocentrus leucis Bean & Bean  
O. quinquefasciatus  
O. occidentalis.

some

1. lat. dyscraticus

**Genus 879. XIPHISTES** Jordan & Starks.*Xiphistes* Jordan & Starks; Proc. Cal. Ac. Sci. 1895, 846 (*chirus*).**2706. Xiphistes ulvæ** Jordan & Starks.

Waadda Island, Neah Bay.

*Xiphistes ulvæ* Jordan & Starks, Fishes Puget Sound, in Proc. Cal. Ac. Sci. 1895, 847, pl. 102, Waadda Island, Neah Bay.**2707. Xiphistes chirus** (Jordan & Gilbert).

Monterey to Alaska.

*Xiphistes chirus* Jordan & Gilbert. Proc. U. S. Nat. Mus. 1880, 135, Los Pinos Point, near Monterey, California.**Genus 880. XIPHIDION** Girard.*Xiphidion* Girard, Pac. R. R. Surv., x, 119, 1858 (*mucosum*).**2708. Xiphidion mucosum** Girard.

Monterey to Alaska.

*Xiphidion mucosum* Girard, Pac. R. R. Surv., 119, 1858, South Farallone Island, off California.**2709. Xiphidion rupestre** (Jordan & Gilbert).

Pacific Coast, from Alaska to Monterey.

*Xiphister rupestris* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 137, Monterey, California.**Genus 881. CEBEDICHTHYS** Ayres.*Cebedichthys* Ayres, Proc. Cal. Ac. Sci., i, 1855, 59 (*violaceus*).**2710. Cebedichthys violaceus** (Girard).

San Francisco to Point Conception.

*Apodichthys violaceus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 150, Monterey, California.**Genus 882. PLAGIOGRAMMUS** Bean.*Plagiogrammus* Bean, Proc. U. S. Nat. Mus. 1893, 699 (*hopkinsi*).**2711. Plagiogrammus hopkinsi** Bean.

Monterey, California.

*Plagiogrammus hopkinsi* Bean, Proc. U. S. Nat. Mus. 1893, 699, plate, Monterey Bay, California.**Family CXCIX. STICHÆIDÆ.****Genus 883. EUMESOGRAMMUS** Gill.*Eumesogrammus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 210 (*præcisus*).**2712. Eumesogrammus præcisus** (Krøyer).

Greenland.

*Clinus præcisus* Krøyer, Naturh. Tidsskr., i, 25, 1836, Greenland.**Genus 884. ULVARIA\*** Jordan & Evermann.*Ulvaria* Jordan & Evermann, new genus (*subbifurcata*).**2713. Ulvaria subbifurcata** (Storer).

North Atlantic, south to Cape Cod.

*Pholis subbifurcatus* Storer, Rept. Fish. Mass., 63, 1839 (Massachusetts).**Genus 885. STICHÆUS** Reinhardt.*Stichæus* Reinhardt, Dansk. Vidensk. Natur. og Math. Afhandl. 1837, 109 (*punctatus*).**2714. Stichæus punctatus** (Fabricius).

Polar seas, south to Cape Cod and Alaska.

*Blennius punctatus* Fabricius, Fauna Græn., 153, 1870, Greenland.\* Distinguished from *Eumesogrammus* by the lateral line, which forks into two.



Genus 886. **LEPTOCLINUS** Gill.*Leptoclinus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 209 (*maculatus*).2715. **Leptoclinus maculatus** (Fries).

Greenland to Spitzbergen.

*Clinus maculatus* Fries, Kgl. Vet. Ak. Handl. 1837, 49, Greenland.Genus 887. **POROCLINUS** Bean.*Poroclinus* Bean, Proc. U. S. Nat. Mus. 1890, 40 (*rothrocki*).2716. **Poroclinus rothrocki** Bean.

Between Nagai and Big Koninshi Islands, Alaska.

*Poroclinus rothrocki* Bean, Proc. U. S. Nat. Mus. 1890, 40, Albatross Station 2852, latitude 55° 15' N., longitude 159° 37' W., in 58 fathoms.Genus 888. **ANISARCHUS** Gill.*Anisarchus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 209 (*medius*).2717. **Anisarchus medius** (Reinhardt).

Greenland to Norway and Spitzbergen.

*Clinus medius* Reinhardt, Dansk. Vidensk. Afh. 1838, 114, Greenland.Genus 889. **LUMPENUS** Reinhardt.*Lumpenus* Reinhardt, Dansk. Vidensk. Selsk. Natur. 1837, 110 (*lumpenus*). *Fabriei*2718. **Lumpenus anguillaris** (Pallas).

San Francisco to Alaska.

*Blennius anguillaris* Pallas, Zoogr. Rosso-Asiat., iii, 176, 1811, about Kamchatka; no definite locality.2719. **Lumpenus lumpenus** (Fabricius). *Fabriei Reinhardt*

Greenland.

*Blennius lumpenus* Fabricius, Fauna Græc., 151, 1870, Greenland. *56 Snolol Bay & Gulf of St. Lawrence*2720. **Lumpenus mackayi** (Gilbert).

Nushagak River, Alaska.

*Leptoblennius mackayi* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 450, pl. 32, Nushagak River, Alaska.Genus 890. **LEPTOBLENNIUS** Gill.*Leptoblennius* Gill, Proc. Ac. Nat. Sci. Phila. 1860, 21 (*serpentinus*).Subgenus **LEPTOBLENNIUS** Gill.2721. **Leptoblennius serpentinus** (Storer).

Cape Cod to Greenland.

*Blennius serpentinus* Storer, Proc. Bost. Soc. Nat. Hist., iii, 1848, 30, no locality.2722. **Leptoblennius lampetræformis** (Walbaum).

Greenland to Norway and Spitzbergen.

*Blennius lampetræformis* Walbaum, Artedi Piscium, 184, 1792, no locality.Subgenus **CENTROBLENNIUS** Gill. *Lumpenus**Centroblennius* Gill, Proc. Ac. Nat. Sci. Phila. 1860, 21 (*nubilus*).2723. **Leptoblennius nubilus** (Richardson).

Wellington Sound.

*Lumpenus nubilus* Richardson, Last Arctic Voyage, Fish., 13, pl. 28, 1854, Wellington Sound.Genus 891. **PLECTOBANCHUS** Gilbert.*Plectobanchus* Gilbert, Proc. U. S. Nat. Mus. 1890, 102 (*evides*).2724. **Plectobanchus evides** Gilbert.

Coast of Oregon and Washington.

*Plectobanchus evides* Gilbert, Proc. U. S. Nat. Mus. 1890, 102, coast of Oregon and Washington.

Lumperus is not available, as specific name  
nubilis = fabrae  
D. about 63. A. 42, with legs than in  
prothoracic leaf fewer, often obsolete. esp  
in young: a dusky blotch at base of

~~? = Lumperus?~~ = Lumperus lumperus

is spelled by h.

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5

Family CC. **CRYPTACANTHODIDÆ**. The Wry-mouths.Genus 892. **DELOLEPIS** Bean.*Delolepis* Bean, Proc. U. S. Nat. Mus. 1881, 465 (*virgatus*).2725. *Delolepis virgatus* Bean.

Coasts of British Columbia and southern Alaska, south to Puget Sound.

*Delolepis virgatus* Bean, Proc. U. S. Nat. Mus. 1881, 466, Kingcombe Inlet, British Columbia, and Port Wrangel, Alaska.Genus 893. **CRYPTACANTHODES** Storer.*Cryptacanthodes* Storer, Rept. Fishes Massachusetts, 28, 1839 (*maculatus*).2726. *Cryptacanthodes maculatus* Storer.

North Atlantic, south to Cape Cod.

*Cryptacanthodes maculatus* Storer, Rept. Fish. Mass., 28, 1839, Massachusetts.Genus 894. **LYCONNECTES** Gilbert.*Lyconectes* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 446 (*aleutensis*).2727. *Lyconectes aleutensis* Gilbert.

Aleutian Islands.

*Lyconectes aleutensis* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 446, pl. 34, near Unalaska.Family CCI. **ANARHICHADIDÆ**. The Wolf-Fishes.Genus 895. **ANARHICHAS** (Artedi) Linnæus.*Anarhichas* (Artedi) Linnæus, Syst. Nat., ed. x, 247, 1758 (*lupus*).Subgenus **ANARHICHAS** Linnæus.2728. *Anarhichas lupus* Linnæus. *Wolf-fish*.

North Atlantic, south to Cape Cod and France; rather common in America and Europe.

*Anarhichas lupus* Linnæus, Syst. Nat., ed. x, 247, 1758, no definite locality.2729. *Anarhichas minor* Olafsen.

North Atlantic, on both coasts, chiefly north of the Arctic Circle.

*Anarrhichas minor* Olafsen, Reise in Island, 592, 1772, Iceland.2730. *Anarhichas lepturus* Bean.

Alaska.

*Anarrhichas lepturus* Bean, Proc. U. S. Nat. Mus., 11, 1879, 212, St. Michaels, Alaska.2731. *Anarhichas orientalis* Pallas.

Alaska.

*Anarrhichas orientalis* Pallas, Zoogr. Rosso-Asiat., III, 77, 1811, Alaska.Subgenus **LYCICHTHYS** Gill.*Lycichthys* Gill, Ann. Record Sci. Indus. 1876 (1877), p. clxvii (*latifrons*).2732. *Anarhichas latifrons* Steenstrup & Hallgrímsson.

North Atlantic, on both coasts; chiefly north of the Arctic Circle (Europe).

*Anarrhichas latifrons* Steenstrup & Hallgrímsson, Forh. Skand. Naturf., 3 die Mote, 1842, 647.Genus 896. **ANARRHICHTHYS** Ayres.*Anarrhichthys* Ayres, Proc. Cal. Ac. Sci., 1, 1855, 32 (*ocellatus*).2733. *Anarrhichthys ocellatus* Ayres.

Pacific Coast, from Monterey north to Puget Sound.

*Anarrhichthys ocellatus* Ayres, Proc. Cal. Ac. Sci., 1, 1855, 31, San Francisco.

Family CCII. CERDALIDÆ.

Genus 897. CERDALE Jordan & Gilbert.

*Cerdale* Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 332 (*ionthas*).

2734. *Cerdale ionthas* Jordan & Gilbert.

Panama.

*Cerdale ionthas* Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 332, Panama.

Genus 898. MICRODESMUS Günther.

*Microdesmus* Günther, Proc. Zool. Soc. Lond. 1864, 26 (*dipus*).

2735. *Microdesmus dipus* Günther.

Pacific Coast of tropical America.

*Microdesmus dipus* Günther, Proc. Zool. Soc. Lond., January 26, 1864, 4, pl. 3, fig. 2, Central America.

2736. *Microdesmus retropinnis* Jordan & Gilbert.

Panama.

*Microdesmus retropinnis* Jordan & Gilbert, Bull. U. S. F. C. 1881, 331, Panama.

Family CCIII. PTILICHTHYIDÆ. The Quill-Fishes.

Genus 899. PTILICHTHYS Bean.

*Ptilichthys* Bean, Proc. U. S. Nat. Mus., iv, 1881, 157 (*goodiei*).

2737. *Ptilichthys goodiei* Bean.

Aleutian Islands.

*Ptilichthys goodiei* Bean, Proc. U. S. Nat. Mus., iv, 1881, 157, Port Levashoff, Unalaska.

Group OPHIDIODEI. The Bel-Pouts.

Family CCIV. ZOARCIDÆ.

Genus 900. ZOARCES Cuvier.

*Zoarces* Cuvier, Règne Animal, ed. 3, ii, 240, 1829 (*visiparus*).

Subgenus MACROZOARCES.

*Macrozoarces* Gill, Proc. Ac. Nat. Sc. Phila. 1863, 258 (*anguillaris*).

2738. *Zoarces anguillaris* (Peck).

Delaware to Labrador; rather common northward.

*Blennius anguillaris* Peck, Mem. Amer. Ac. Sci., ii, 1804, 46, New Hampshire.

Genus 901. LYCODOPSIS Collett.

*Lycodopsis* Collett, Proc. Zool. Soc. Lond. 1879, 381 (*pacificus*).

2739. *Lycodopsis pacificus* Collett.

San Francisco to Puget Sound.

*Lycodes* (*Lycodopsis*) *pacificus* Collett, Proc. Zool. Soc. Lond. 1879, 381, said to be from Japan; doubtless an error.

2740. *Lycodopsis crotalinus* Gilbert.

Northern Pacific and off Santa Barbara Islands.

*Lycodopsis crotalinus* Gilbert, Proc. U. S. Nat. Mus. 1890, 105, off Santa Barbara Islands, at Albatross Station 2980, in 603 fathoms.

2741. *Lycodopsis crassilabris* Gilbert.

Coast of southern California.

*Lycodopsis crassilabris* Gilbert, Proc. U. S. Nat. Mus. 1890, 106, off southern California, at Albatross Station 2839.

Genus 902. APRODON Gilbert.

*Aprodon* Gilbert, Proc. U. S. Nat. Mus. 1890, 106 (*corteziana*).

2742. *Aprodon corteziana* Gilbert.

Cortez Banks, near San Diego, California.

*Aprodon corteziana* Gilbert, Proc. U. S. Nat. Mus. 1890, 107, Cortez Banks, off San Diego, at Albatross Stations 2925 and 2948, in 339 and 266 fathoms.

2740-1. = Lyciscus J.R.

ms/

*Agcodes lunulatus* Leitch, 1924.  
new found.

*Agcodes digitatus* Hill & Townsend  
*Agcodes unicolor* Esq.  
Barrington.

= *paleatus*  
Sext?

2751 - *lunulatus*  
young?

**Genus 903. LYCODES Reinhardt.**

*Lycodes* Reinhardt, Königl. Danske Vidensk. Selsk. Naturv., Math. Afh., VII, 1838, 153 (*vahli*).

**Subgenus LYCODES Reinhardt.****2743. *Lycodes vahli* Reinhardt.**

Coast of Greenland.

*Lycodes vahli* Reinhardt, Kön. Dan. Vidensk. Selsk. Nat. Math. Afh., VII, 1838, 153, pl. 5, Greenland.

**2744. *Lycodes esmarki* Collett.**

North Atlantic; Gulf Stream, in about latitude 40°, to Finmark and Spitzbergen.

*Lycodes esmarki* Collett, Norges Fiske, 95, 1874, American specimens, from the Gulf Stream in about latitude 40°.

**2745. *Lycodes zoarchus* Goode & Bean.**

Atlantic Ocean, off Nova Scotia.

*Lycopodes zoarchus* Goode & Bean, Ocean. Ichth., 308, 1896, off Nova Scotia, in 130 fathoms.

**2746. *Lycodes reticulatus* Reinhardt.**

North Atlantic, from Greenland south to Narragansett Bay; also northern Europe.

*Lycodes reticulatus* Reinhardt, Kön. Dan. Vid. Selsk., 1838, 153, Greenland.

**2747. *Lycodes perspicillum* Kröyer.**

Off southern Newfoundland.

*Lycodes perspicillum* Kröyer, Dansk. Vidensk. Selsk. Afhandl., XI, 1845.

**2748. *Lycodes frigidus* Collett.**

Atlantic, off New England Coast.

*Lycodes frigidus* Collett, Forh. Vid. Selsk. Christ. 1878, Nos. 14, 45, near Spitzbergen.

**2749. *Lycodes palearis* Gilbert.**

Bristol Bay, Alaska.

*Lycodes palearis* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 454, Bristol Bay, Alaska, at Albatross Stations 3253 and 3254, in 36 and 46 fathoms.

**2750. *Lycodes brevipes* Bean.**

Aleutian Islands.

*Lycodes brevipes* Bean, Proc. U. S. Nat. Mus. 1890, 38, between Unga and Nagai islands, in 110 fathoms.

**2751. *Lycodes coccineus* Bean.**

Big Diomed Island, Bering Strait.

*Lycodes coccineus* Bean, Proc. U. S. Nat. Mus., IV, 1881, 144, Big Diomed Island, Bering Strait.

**2752. *Lycodes nebulosus* Kröyer.**

Greenland.

*Lycodes nebulosus* Kröyer, Kön. Dan. Vidensk. Sel. 1814, 140, Greenland.

**2753. *Lycodes seminudus* Reinhardt.**

North Atlantic, from Greenland to Spitzbergen.

*Lycodes seminudus* Reinhardt, Kön. Dansk. Selsk. etc., 1838, 233, Owenah, Greenland.

**Genus 904. LYCENCHELYS Gill.**

*Lycenchelys* Gill, Proc. Ac. Nat. Sci. Phila. 1884, 180 (*muræna*).

**Subgenus LYCENCHELYS Gill.****2754. *Lycenchelys verrilli* (Goode & Bean).**

Coast of Massachusetts and northward.

*Lycodes verrilli* Goode & Bean, Am. Jour. Sci. Arts, XIV, 1878, 474, 27 miles south and west of Chobucto Head, near Halifax.



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2755. *Lycenchelys paxillus* (Goode & Bean).

Gulf Stream.

*Lycodes paxillus* Goode & Bean, Proc. U. S. Nat. Mus. 1879, 44, between Le Have and Sable Island Banks.

2756. *Lycenchelys porifer* (Gilbert).

Off Lower California.

*Lycodes porifer* Gilbert, Proc. U. S. Nat. Mus. 1890, 104, off Lower California, at Albatross Station 3009, in 857 fathoms.

*Genus*

*Subgenus* FURCELLA Jordan & Evermann.

*Furcella* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*diapterus*).

2757. *Lycenchelys diapterus* (Gilbert).

Coasts of California and Oregon.

*Lycodes diapterus* Gilbert, Proc. U. S. N. M. 1891, 564, off coast of Oregon, at Albatross Stations 2892, 2896, and others, in 82 to 376 fathoms.

Genus 905. LYCODONUS Goode & Bean.

*Lycodonus* Goode & Bean, Bull. M. C. Z., x, No. 5, 206, 1883 (*mirabilis*).

2758. *Lycodonus mirabilis* Goode & Bean.

Off the New England Coast.

*Lycodonus mirabilis* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 206, 1883, latitude 38° 20' 8" N., longitude 73° 29' 20" W., in 740 fathoms.

Genus 906. LYCODALEPIS Bleeker.

*Lycodalepis* Bleeker, Verh. Akad. Amst., ed. II, VIII, 369 (*mucosus*).

2759. *Lycodalepis mucosus* (Richardson).

Arctic seas.

*Lycodes mucosus* Richardson, Last Arctic Voyage, 362, pl. 26, 1835, Northumberland Sound.

2760. *Lycodalepis turneri* (Bean).

Northern Alaska.

*Lycodes turneri* Bean, Proc. U. S. Nat. Mus. 1878, 464, St. Michaels, Alaska.

2761. *Lycodalepis polaris* (Sabine).

Coast of north Georgia.

*Blennius polaris* Sabine, Parry's Jour., Voyage 1819-20, Supp., 212, North Georgia.

Genus 907. LYCONEMA Gilbert.

*Lyconema* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 471 (*barbatum*).

2762. *Lyconema barbatum* Gilbert.

Coast of Alaska.

*Lyconema barbatum* Gilbert, Rept. U. S. Fish. Com. 1893 (1896), 471, pl. 35, coast of Alaska, at Albatross Station 3129, in 204 fathoms.

Genus 908. MAYNEA Cunningham.

*Maynea* Cunningham, Trans. Linn. Soc., XXVII, 471, 1871 (*patagonica*).

2763. *Maynea pusilla* Bean.

Coast of Alaska, north of Unalaska.

*Maynea pusilla* Bean, Proc. U. S. Nat. Mus. 1890, 39, Aleutian Islands, latitude 55° 10' N., longitude 160° 18' W., in 110 fathoms.

2764. *Maynea brunnea* Bean.

North Pacific, Unalaska; southern California.

*Maynea brunnea* Bean, Proc. U. S. Nat. Mus. 1890, 39, latitude 33° 08' N., longitude 118° 40' W., off San Clemente Island, southern California, in 414 fathoms.

2765. *Maynea stigma* (Lay & Bennett)

Kotzebue Sound.

*Ophidium stigma* Lay & Bennett, Zool. Beechey's Voy., 67, 1839, Kotzebue Sound.

= ? *L. parkensis*

? as to Bothrocara  
forms

= *Magnus mollis*.

*isomialis stigma* *quadrifida*

Genus 909. **BOTHROCARA** Bean. *Magnea*  
*Bothrocara* Bean, Proc. U. S. Nat. Mus. 1890, 38 (*mollis*).

**2766. Bothrocara mollis** Bean.

Coast of British Columbia.

*Bothrocara mollis* Bean, Proc. U. S. Nat. Mus. 1890, 39, off Queen Charlotte Islands, in 876 fathoms.

Genus 910 **GYMNELIS** Reinhardt.

*Gymnelis* Reinhardt, Dansk. Vidensk. Selsk. Afhandl., VII, 1838, 131 (*viridis*).

**2767. Gymnelis viridis** Reinhardt.

Arctic seas, south to Alaska and Nova Scotia.

*Gymnelis viridis* Reinhardt, Dansk. Vidensk. Selsk. Afh., VII, 1838, 131, Greenland.

Genus 911. **LYCOCARA** Gill.

*Lycocara* Gill, Proc. Ac. Nat. Sci. Phila. 1884, 180 (*parrii*).

**2768. Lycocara parrii** (Ross).

Baffins Bay.

*Ophidium parrii* Ross, Parry's Third Voyage, App. 109, 1826, Baffins Bay.

Genus 912. **MELANOSTIGMA** Günther.

*Melanostigma* Günther, Proc. Zool. Soc. Lond. 1881, 21 (*gelatinosum*).

**2769. Melanostigma gelatinosum** Günther.

Deep waters of the western Atlantic; originally known from the Straits of Magellan, but since obtained in various localities from Cape Cod to the West Indies.

*Melanostigma gelatinosum* Günther, Proc. Zool. Soc. Lond. 1881, 21, pl. 2, fig. A, Straits of Magellan.

**2770. Melanostigma pammelas** Gilbert.

Coast of Alaska.

*Melanostigma pammelas* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 472, pl. 35, coast of Alaska, at Albatross Station 3202, latitude  $36^{\circ} 46' 10''$  N., longitude  $121^{\circ} 58' 45''$  W., in 382 fathoms.

**Family CCV. SCYTALINIDÆ.**

Genus 913. **SCYTALINA** Jordan & Gilbert.

*Scytalina* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 266 (*cerdale*).

**2771. Scytalina cerdale** Jordan & Gilbert.

Straits of Juan de Fuca, Waadda Island, near Cape Flattery.

*Scytalina cerdale* Jordan & Gilbert, Proc. U. S. Nat. Mus., III, 1880, 266, Waadda Island, Neah Bay.

**Family CCVI. DEREPODICHTHYIDÆ.**

Genus 914. **DEREPODICHTHYS** Gilbert.

*Derepodichthys* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 456 (*alepidotus*).

**2772. Derepodichthys alepidotus** Gilbert.

Coast of British Columbia, off Queen Charlotte Island.

*Derepodichthys alepidotus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 456, Queen Charlotte Island, at Albatross Station 3342, in 1,588 fathoms.

**Family CCVII. OPHIDIIDÆ.**

Genus 915. **LEPOPHIDIUM** Gill.

*Lepophidium* Gill. Am. Nat., XXIX, 1895, 167, substitute for *Leptophidium* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 210 (*profundorum*); preoccupied in Serpents by *Leptophidium* Hallowell, 1860.

**2773. Lepophidium marmoratum** (Goode & Bean).

Gulf Stream.

*Leptophidium marmoratum* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 423, latitude  $23^{\circ} 10' 39''$  N., longitude  $82^{\circ} 20' 21''$  W., in 213 fathoms.

**2774. *Lepophidium emmelas* (Gilbert).**

Coast of Lower California.

*Lepophidium emmelas* Gilbert, Proc. U. S. Nat. Mus. 1890, 110, coast of Lower California, at Albatross Stations 3007 and 3008, in 362 and 306 fathoms.

**2775. *Lepophidium stigmatistum* (Gilbert).**

Coast of Lower California.

*Lepophidium stigmatistum* Gilbert, Proc. U. S. Nat. Mus. 1890, 109, off Lower California, at Albatross Station 2998, in 112 fathoms.

**2776. *Lepophidium profundorum* (Gill).**

Gulf Stream, off the coast of Florida.

*Lepophidium profundorum* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 211, Gulf Stream, off the coast of Florida.

**2777. *Lepophidium cervinum* (Goode & Bean).**

Gulf Stream.

*Lepophidium cervinum* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 422, 40° 01' N., 69° 56' W., depth 76 fathoms.

**2778. *Lepophidium prorates* (Jordan & Bollman).**

Panama, and south of Panama.

*Lepophidium prorates* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 172, Panama, and south of Panama.

**2779. *Lepophidium brevibarbe* (Cuvier).**

West Indies and Brazil.

*Ophidium brevibarbe* Cuvier, Règne Animal, ed. 2, 11, 358, 1828 (Brazil).

**2780. *Lepophidium pardale* (Gilbert).**

Lower California.

*Lepophidium pardale* Gilbert, Proc. U. S. N. M. 1890, 106, off Lower California.

**2781. *Lepophidium microlepis* (Gilbert).**

Lower California.

*Lepophidium microlepis* Gilbert, Proc. U. S. Nat. Mus. 1890, 109, off Lower California.

**Genus 916. OPHIDION (Artedi) Linnaeus. Cusk-eels.**

*Ophidion* (Artedi) Linnaeus, Syst. Nat., ed. x, 259, 1758 (*barbatum*).

**2782. *Ophidion beani* Jordan & Gilbert.**

Gulf of Mexico; Snapper Banks off Pensacola, Florida.

*Ophidion beani* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1883, 43, Snapper Banks off Pensacola.

**2783. *Ophidion holbrookii* (Putnam).**

Key West, Florida; Gulf of Mexico

*Ophidion holbrookii* Putnam, Proc. Bost. Soc. Nat. Hist. 1874, 342, Key West, Florida.

**2784. *Ophidion grællsi* Poey.**

Cuba.

*Ophidion grællsi* Poey, Memorias, 11, 425, 1861, Havana.

**Genus 917. CHILARA\* Jordan & Evermann.**

*Chilara* Jordan & Evermann, new genus (*taylori*).

**2785. *Chilara taylori* (Girard).**

Coast of California, from Monterey to San Diego.

*Ophidium taylori* Girard, Pac. R. R. Surv., x, 138, 1858, Monterey, California.

\* Distinguished from *Ophidion* by the spine on the opercle. The air bladder is ovate, not contracted, and without foramen, as in *Ophidion*.





Genus 918. **RISSOLA** \* Jordan & Evermann.*Rissola* Jordan & Evermann, new genus (*marginatum*).2786. *Rissola marginata* (DeKay).

South Atlantic Coast of United States, from New York south to Pensacola.  
*Ophidium marginatum* DeKay, New York Fauna: Fishes, 315, 1842, New York Harbor.

Genus 919 **OTOPHIDIUM** Gill.*Otophidium* Gill, in Jordan, Cat. Fish. N. A., 126, 1885 (*omostigma*).2787. *Otophidium omostigma* (Jordan & Gilbert).

Gulf of Mexico, Pensacola Snapper Banks.  
*Genypterus omostigma* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 301, Pensacola Snapper Banks.

2788. *Otophidium indefatigabile* Jordan & Bollman.

Indefatigable Island, Galapagos Archipelago.  
*Otophidium indefatigabile* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 172, Indefatigable Island in the Galapagos Archipelago.

2789. *Otophidium galeoides* Gilbert.

Coast of Lower California.  
*Ophidion galeoides* Gilbert, Proc. U.S.N.M. 1890, 110, off Lower California.

Family CCVIII. **LYCODAPODIDÆ.**Genus 920. **LYCODAPUS** Gilbert.*Lycodapus* Gilbert, Proc. U. S. Nat. Mus. 1890, 107 (*fierasfer*).2790. *Lycodapus dermatinus* Gilbert.

Coast of California, in deep water.  
*Lycodapus dermatinus* Gilbert; Rept. U. S. Fish Com. 1893 (1896), 471, pl. 35, coast of California, at Albatross Station 3162, 37° 54' 10' N., 123° 30' W., in 552 fathoms.

2791. *Lycodapus fierasfer* Gilbert.

Pacific Coast of America, Lower California to Washington, in deep water.  
*Lycodapus fierasfer* Gilbert, Proc. U. S. Nat. Mus. 1890, 108, off Lower California and Washington, at Albatross Stations 2980, 3010, and 3072, in 610 to 1,005 fathoms.

2792. *Lycodapus parviceps* Gilbert.

Bering Sea, north of Unalaska Island.  
*Lycodapus parviceps* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 455, Bering Sea, north of Unalaska Island, at Albatross Station 3324 in 109 fathoms.

2793. *Lycodapus extensus* Gilbert.

Bering Sea, north of Unalaska Island.  
*Lycodapus extensus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 455, Bering Sea, north of Unalaska Island, at Albatross Station 3324, in 109 fathoms.

Family CCIX. **FIERASFERIDÆ.**Genus 921. **FIERASFER** Cuvier.*Fierasfer* Cuvier, Règne Animal, ed. 1, II, 239, 1817 (*imberbis*).2794. *Fierasfer dubius* Putnam. *Pearl-fish*.

Lower California to Panama; especially common about the Pearl Islands, off Panama.  
*Fierasfer dubius* Putnam, Proc. Bost. Soc. Nat. Hist. 1874, 344, Pearl Islands.

2795. *Fierasfer arenicola* Jordan & Gilbert.

Pacific Coast of Mexico.  
*Fierasfer arenicola* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 363, Mazatlan, Mexico.

\* Distinguished from *C*  
broad air bladder with a.

the opercular spine, and from *Ophidion* by the



2796. *Pteraster bermudensis* (Jones).

West Indies, recorded from Bermuda, Havana, Key West, and St. Thomas.  
*Lafroya bermudensis* Jones, Zoologist, January, 1874, 3838, Bermuda.

Family CCX. BROFULIDÆ.

Genus 922. BROFULA Cuvier.

*Brotula* Cuvier, Regne Animal, ed. 2, ii, 335, 1829 (*barbatus*).

2797. *Brotula barbata* (Bloch & Schneider).

West Indies.  
*Enchelyopus barbatus* Bloch & Schneider, Syst. Ichth., 52, 1801, Havana; after Parra. *Gallbia*

Genus 923. DINEMATICHTHYS Bleeker.

*Dinematichthys* Bleeker, Batav., 318, 1855 (*ilmoocoides*).

2798. *Dinematichthys ventralis* (Gill).

Lower California, about Cape San Lucas.  
*Brosomphycis ventralis* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 253, Cape San Lucas.

Genus 924. BROSMOPHYCIS Gill.

*Brosomphycis* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 253 (*marginatus*).

2799. *Brosomphycis marginatus* (Ayres).

San Francisco, California.  
*Brosomus marginatus* Ayres, Proc. Cal. Ac. Sci., i, 1854, 13, Bay of San Francisco.

Genus 925. BYTHITES Reinhardt.

*Bythites* Reinhardt, Dansk. Vidensk. Selsk. Afhandl., vii, 1838, 178 (*fuscus*).

2800. *Bythites fuscus* Reinhardt.

The only specimen known, now in the museum at Copenhagen, was obtained in Greenland half a century ago.  
*Bythites fuscus* Reinhardt, Dansk. Vidensk. Selsk. Afh. 1838, 178, Greenland

Genus 926. CATASTYX Günther.

*Catastyx* Günther, Challenger Report, xxii, 104, 1887 (*messieri*).

2801. *Catastyx rubrirostris* Gilbert.

Coast of California south of Point Conception, in deep water.  
*Catastyx rubrirostris* Gilbert, Proc. U. S. Nat. Mus. 1890, 111, coast of California, at Albatross Stations 2908, 2925, and 2936, in 205 to 356 fathoms.

Genus 927. BARATHRODEMUS Goode & Bean.

*Barathrodemus* Goode & Bean, Bull. M. C. Z., x, No. 5, 200, 1883 (*manatinus*).

2802. *Barathrodemus manatinus* Goode & Bean.

Gulf Stream, north of Bermudas.  
*Barathrodemus manatinus* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 200, 1883, 33° 51' 20" N., 76° W., in 647 fathoms.

Genus 928. DICROLENE Goode & Bean.

*Dicrolene* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 202, 1883 (*intronigra*).

2803. *Dicrolene intronigra* Goode & Bean.

Gulf Stream, from latitude 15° to 40° north.  
*Dicrolene intronigra* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 202, 1883, Gulf Stream, latitude 34°.

Genus 929. DICROMITA Goode & Bean.

*Dicromita* Goode & Bean, Ocean. Ichth., 319, 1896 (*agassizii*).

2804. *Dicromita agassizii* Goode & Bean.

Off Granada.  
*Dicromita agassizii* Goode & Bean, Ocean. Ichth., 319, 1896, off Granada, in 291 fathoms.

Ogilbia sayorum,  
D. ventralis:

Melvin J. Friedman  
F.C.

19. 220, 82 Teilgebende

**Genus 930. BARATHRONUS Goode & Bean.***Barathronus* Goode & Bean, Bull. Mus. Comp. Zool., XII, 164, 1883 (*bicolor*).**2805. Barathronus bicolor Goode & Bean.**

Off Guadaloupe Island, in deep water.

*Barathronus bicolor* Goode & Bean, Bull. Mus. Comp. Zool., XII, 164, 1883, off Guadaloupe, at Blake Station 71, in 769 fathoms.**Genus 931. MIXONUS Günther.***Mixonus* Günther, Challenger Report, XXII, 108, 1887 (*laticeps*).**2806. Mixonus laticeps (Günther).**

Mid-Atlantic, in deep water.

*Bathynectes laticeps* Günther, Ann. Mag. Nat. Hist., II, 1878, 20, mid-Atlantic, at Challenger Station 104, in 2,500 fathoms.**Genus 932. BATHYONUS Goode & Bean.***Bathyonus* Goode & Bean, Proc. U. S. Nat. Mus., VIII, 1885, 603 (*catena*).**2807. Bathyonus compressus (Günther).**

Challenger Stations 184, off Raine Island; 205 off Philippine Islands, and 107 in mid-Atlantic.

*Bathynectes compressus* Günther, Ann. Mag. Nat. Hist., II, 1878, 20, mid-Atlantic, at Challenger Station 107, in 1,500 fathoms.**2808. Bathyonus catena Goode & Bean.**

Gulf Stream, at Albatross Station 2379, latitude 28° 00' 15" N., longitude, 87° 42' W., in 1,467 fathoms.

*Bathyonus catena* Proc. U. S. Nat. Mus., VIII, 1885, 603, Gulf Stream.**Genus 933. PENOPUS Goode & Bean.***Penopus* Goode & Bean, Ocean. Ichth., 335, 1896 (*macdonaldi*).**2809. Penopus macdonaldi Goode & Bean.**

Gulf Stream.

*Penopus macdonaldi* Goode & Bean, Oceanic Ichth., 336, fig. 293, 1896, Gulf Stream, at Albatross Station 2716, 38° 29' 30" N., 70° 57' W., in 1,631 fathoms.**Genus 934. BASSOGIGAS Gill.***Bassogigas* Gill, in Goode & Bean, Ocean. Ichth., 328, 1896 (*gillii*).**2810. Bassogigas gillii Goode & Bean.**

Off Cape Henlopen, Delaware.

*Bassogigas gillii* Goode & Bean, Ocean. Ichth., 328, fig. 291, 1896, off Cape Henlopen, Delaware, at Albatross Station 2684, in 1,106 fathoms.**Genus 935. NEOBYTHITES Goode & Bean.***Neobythites* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 600 (*gillii*).**2811. ~~Neobythites~~ stelliferoides Gilbert.**

Gulf of California.

*Neobythites stelliferoides* Gilbert, Proc. U. S. Nat. Mus. 1890, 112, Gulf of California, at Albatross Station 2996, 24° 30' 15" N., 110° 29' W., in 112 fathoms.**2812. Neobythites gillii Goode & Bean.**

Gulf of Mexico.

*Neobythites gillii* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 601, Gulf of Mexico, at Albatross Station 2402, 28° 36' N., 85° 33' W., in 111 fathoms.**2813. Neobythites marginatus Goode & Bean.**

Off Barbados.

*Neobythites marginatus* Goode & Bean, Bull. Mus. Comp. Zool., XII, 162, 1883, off Barbados, in 209 fathoms.

Genus 936. **BENTHOCOMETES** Goode & Bean.

*Benthocometes* Goode & Bean, Ocean. Ichth., 327, 1896 (*robustus*).

2814. **Benthocometes robustus** (Goode & Bean).

West Indies, to latitude 39° N., in Gulf Stream.

*Neobythites robustus* Goode & Bean, Bull. Mus. Comp. Zool., xii, 161, 1883, off Moro Castle, Cuba.

Genus 937. **POROGADUS** Goode & Bean.

*Porogadus* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 602 (*miles*).

2815. **Porogadus miles** Goode & Bean.

Atlantic Coast off Delaware Bay, in deep water.

*Porogadus miles* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 603, at Albatross Station 2230, 38° 27' N., 73° 2' W., in 1,168 fathoms.

Genus 938. **BASSOZETUS** Gill.

*Bassozetus* Gill, Proc. U. S. Nat. Mus. 1883, 259 (*normalis*).

2816. **Bassozetus catena** Goode & Bean.

Gulf of Mexico, in deep water.

*Bassozetus catena* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 603, at Albatross Station 2379, 28° 00' 15" N., 87° 42' W., in 1,467 fathoms.

2817. **Bassozetus normalis** Gill.

West Indies, off Dominica to 40° north latitude, in region of Gulf Stream.

*Bassozetus normalis* Gill, Proc. U. S. Nat. Mus. 1883, 259, Gulf Stream, at Albatross Station 2042, 39° 33' N., 68° 26' 45" W., in 1,555 fathoms.

2818. **Bassozetus compressus** Goode & Bean.

Gulf of Mexico, in deep water.

*Bassozetus compressus* Goode & Bean, Ocean. Ichth., 322, 1896, 28° 00' 15" N., 87° 42' W., in 1,467 fathoms. (Günther, Ann. and Mag. Nat. Hist., ii, 1878, 20, seems to be the original description.)

Genus 939. **NEMATONUS** Günther.

*Nematonus* Günther, Challenger Report, xxii, 114, 1887 (*pectoralis*).

2819. **Nematonus pectoralis** (Goode & Bean).

Gulf of Mexico, and off Dominica.

*Bathonus pectoralis* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 604, Albatross Station 2380, 28° 02' 30" N., 87° 43' 45" W., in 1,430 fathoms.

Genus 940. **APHYONUS** Günther.

*Aphyonus* Günther, Ann. Mag. Nat. Hist., ii, 1878, 22 (*gelatinosus*).

2820. **Aphyonus mollis** Goode & Bean.

Gulf of Mexico, in deep water.

*Aphyonus mollis* Goode & Bean, Bull. Mus. Comp. Zool., xii, 163, 1883, Gulf of Mexico, at Blake Station 221, 24° 36' N., 84° 5' W., in 955 fathoms.

Genus 941. **LUCIFUGA** Poey.

*Lucifuga* Poey, Memorias, ii, 95, 1860 (*subterraneus*).

2821. **Lucifuga subterranea** Poey    *Poz Ciego*.

Cuba.

*Lucifuga subterraneus* Poey, Memorias, ii, 96, 1860, Caves of San Antonio in southern Cuba.

Genus 942. **STYGICOLA** Gill.

*Stygicola* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 252 (*dentata*).

2822. **Stygicola dentata** Poey.

Caves in southern Cuba.

*Lucifuga dentatus* Poey, Memorias, ii, 102, 1860, cave of Cajío, Cuba.

*Moëbia promela*, Gilbert,

Bellator aperta.

## Suborder CRANIOMI.

## Family CCXI. TRIGLIDÆ. The Gurnards.

Genus 943. PRIONOTUS Lacépède. *Gurnards*.

*Prionotus* Lacépède, Hist. Nat. Poiss., III, 37, 1802 (*evolans*).

2823. *Prionotus birostratus* Richardson.

Gulf of Fonseca, west coast of Central America.

*Prionotus birostratus* Richardson, Voy. Sulphur, Ichthyology, pt. II, 81, April, 1845, Gulf of Fonseca, west coast of Central America.

2824. *Prionotus gymnostethus* Gilbert.

Gulf of California.

*Prionotus gymnostethus* Gilbert, Proc. U. S. Nat. Mus. 1891, 559, Gulf of California, in shallow water.

2825. *Prionotus xenisma* Jordan & Bollman.

Pacific Ocean, off coast of Colombia.

*Prionotus xenisma* Jordan & Bollman, Proc. U. S. N. M. 1889, 169, Pacific Coast of Colombia.

2826. *Prionotus loxias* Jordan.

Pacific Coast of Central America.

*Prionotus loxias* Jordan, Proc. U. S. Nat. Mus. 1895, Pacific Ocean, south of Panama.

2827. *Prionotus egretta* Goode & Bean.

Barbados.

*Prionotus egretta* Goode & Bean, Oceanic Ichth., 465, 1896, off Barbados.

2828. *Prionotus carolinus* (Linnæus). *Common Gurnard*.

Cape Ann to South Carolina, chiefly northward.

*Trigla carolina* Linnæus, "Mantissa 176 ¶ 528" Carolina.

2829. *Prionotus scitulus* Jordan.

South Atlantic coast of United States, Beaufort to St. Augustine.

*Prionotus scitulus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 288, Beaufort.

2830. *Prionotus roseus* Jordan & Evermann.

Gulf of Mexico; Tampa Bay; Pensacola.

*Prionotus roseus* Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 470, off Tampa Bay, Florida.

2831. *Prionotus alatus* Goode & Bean.

Off Charleston, South Carolina.

*Prionotus alatus* Goode & Bean, Bull. Mus. Comp. Zool., x, 210, 1883, deep sea off Charleston, South Carolina.

2832. *Prionotus miles* Jenyns.

Galapagos Islands.

*Prionotus miles* Jenyns, Zool. Beagle, Fishes, 29, pl. 6, 1842, Chatham Island, of the Galapagos Archipelago.

2833. *Prionotus stephanophrys* Lockington,

Deep water, off San Francisco, Point Reyes, and Monterey.

*Prionotus stephanophrys* Lockington, Proc. U. S. Nat. Mus. 1880, 529, Point Reyes, near San Francisco.

2834. *Prionotus quiescens* Jordan & Bollman.

Pacific Ocean, off the coast of Colombia; Gulf of California.

*Prionotus quiescens* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 166, off Pacific Coast of Colombia.

2835. *Prionotus albirostris* Jordan & Bollman.

Pacific Ocean, off the coast of tropical America.

*Prionotus albirostris* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 168, Pacific Ocean, off the coast of Colombia.



2836. *Prionotus rubio* Jordan. *Rubio Volador*.  
West Indies.  
*Prionotus rubio* Jordan, Proc. U. S. Nat. Mus. 1886, 50, Havana.
2837. *Prionotus ophryas* Jordan & Swain.  
Gulf of Mexico, Snapper Banks, near Pensacola, Florida.  
*Prionotus ophryas* Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 542, Snapper Banks, off Pensacola, Florida.
2838. *Prionotus stearnsi* Jordan & Swain.  
Gulf of Mexico.  
*Prionotus stearnsi* Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 541, Pensacola.
2839. *Prionotus strigatus* Cuvier & Valenciennes. *Red winged Gurnard*.  
Atlantic Coast of the Northern States, Cape Cod to Virginia.  
*Prionotus strigatus* Cuv. & Val., Hist. Nat. Poiss., iv, 86, 1829, New York.
2840. *Prionotus evolans* Linnaeus. *Striped Gurnard*.  
South Atlantic Coast of United States.  
*Prionotus evolans* Gill, Cat. Fish. East Coast N. Am., 21, 1861, name only.
2841. *Prionotus punctatus* Bloch.  
West Indies and coast of South America.  
*Prionotus punctatus* Bloch, Ichth., pl. 353, 1793, Martinique; on a drawing by Plumier.
2842. *Prionotus beanii* Goode.  
Off Trinidad.  
*Prionotus beanii* Goode, in Goode & Bean, Oceanic Ichth., 468, 1896, off Trinidad.
2843. *Prionotus tribulus* Cuvier & Valenciennes. *Big-headed Gurnard*.  
South Atlantic Coast, from Long Island to Brazos.  
*Prionotus tribulus* Cuvier & Valenciennes, Hist. Nat. Poiss., iv, 98, pl. 74, 1829, New York; Carolina.
2844. *Prionotus horrens* Richardson.  
Pacific Coast of tropical America.  
*Prionotus horrens* Richardson, Voy. Sulph., Ichth., 79, pl. 42, figs. 1-3, 1843, Gulf of Fonseca.
- Genus 944. **BELLATOR\*** Jordan & Evermann.  
*Bellator* Jordan & Evermann, new genus (*militaris*).
2845. *Bellator militaris* (Goode & Bean).  
Off Cape Catoche, Yucatan; Gulf of Mexico.  
*Prionotus militaris* Goode & Bean, Ocean. Ichth., 464, figs. 380 and 384, 1896, off Cape Catoche, Yucatan.
- Genus 945. **CHELIDONICHTHYS** Kaup.  
Kaup, Archiv f. Naturgeschichte 1873, 87 (*hirundo*).
2846. *Chelidonichthys pictipinnis* (Kaup).  
Barbados.  
*Chelidonichthys pictipinnis* Kaup,† Archiv f. Naturg. 1873, 87, Barbados (†).
- Genus 946. **TRIGLA** (Arted.) Linnaeus. *Plated Gurnard*.  
*Trigla* (Arted.) Linnaeus, Syst. Nat., ed. x, 300, 1758 (*cuculus*).
2847. *Trigla cuculus* Linnaeus. *Red Gurnard*.  
Southern Europe. Said by Cuvier to have been brought once from New York by Milbert; record probably erroneous.  
*Trigla cuculus* Linnaeus, Syst. Nat., ed. x, 301, 1758, Mediterranean, in the open sea.

\* Distinguished by its greatly elongate dorsal spines.

† The type of this species examined by us seems to be inseparable from *Chelidonichthys kumu* of the South Pacific. It probably is not American.

*Bellator agrestis*,



**Family CCKII. PERISTEDIIDÆ. The Deep-water Gurnards.**

Genus 947. **PERISTEDION** Lacépède.

*Peristidion* Lacépède, Hist. Nat. Poiss., III, 368, 1802 (*malarmat* = *cataphracta*).

**2848. *Peristedion miniatum* Goode.**

Gulf Stream.

*Peristedion miniatum* Goode, Proc. U. S. Nat. Mus. 1880, 349, Gulf Stream, off Rhode Island.

**2849. *Peristedion longispatha* Goode & Bean.**

West Indies, off Cuba and Barbados.

*Peristedium longispatha* Goode & Bean, Bull. Mus. Comp. Zool., XII, No. 5, 166, 1886, off Havana.

**2850. *Peristedion gracile* Goode & Bean.**

Gulf of Mexico.

*Peristedion gracile* Goode & Bean, Ocean. Ichth., 473, 1896, Gulf of Mexico.

**2851. *Peristedion platycephalum* Goode & Bean.**

West Indies; Barbados.

*Peristedion platycephalum* Goode & Bean, Bull. Mus. Comp. Zool., XII, No. 5, 167, 1886, off Barbados.

Genus 948. **VULSICULUS**\* Jordan & Evermann.

*Vulsiculus* Jordan & Evermann, new genus (*imberbis*).

**2852. *Vulsiculus imberbis* (Poey).**

Gulf of Mexico.

*Prionotus imberbe* Poey, Memorias, II, 367, 1861, Cuba.

**Family CCKIII. CEPHALACANTHIDÆ. The Flying-Fish.**

Genus 949. **CEPHALACANTHUS** Lacépède.

*Cephalacanthus* Lacépède, Hist. Nat. Poiss., III, 223, 1802 (*spinarella*).

**2853. *Cephalacanthus volitans* (Linnæus). *Flying-robin*; *Mucielago*; *Volador*; *Batfish*.**

Atlantic Ocean, on both coasts; also Gulf coasts.

*Trigla volitans* Linnæus, Syst. Nat., ed. x, I, 302, 1758; after Artedi.

**Suborder DISCOCEPHALI****Family CCKIV. ECHENEIDIDÆ. The Remoras.**

Genus 950. **PHTHEIRICHTHYS** Gill.

*Phtheirichthys* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 239 (*lineata*).

**2854. *Phtheirichthys lineatus* (Menzies).**

Tropical seas, ranging north to South Carolina and Pensacola.

*Echeneis lineata* Menzies, Trans. Linn. Soc. Lond. 1791, I, 187, pl. 17, fig. 1, Pacific Ocean, between the Tropics.

Genus 951. **ECHENEIS** (Artedi) Linnæus.

*Echeneis* (Artedi) Linnæus, Syst. Nat., ed. x, 260, 1758 (*naucrates*).

**2855. *Echeneis naucrates* Linnæus. *Shark-sucker*; *Pega*; *Pegador*; *Sucking-fish*.**

Warm seas, universally distributed; common north to Cape Cod and San Francisco.

*Echeneis naucrates* (misprint for *naucrates*) Linnæus, Syst. Nat., ed. x, 261, 1758, Pelago Indico.

**2856. *Echeneis naucrateoides* Znieww.**

Cape Cod to West Indies; common on our South Atlantic Coast.

*Echeneis naucrateoides* Znieww, Nova Acta Ac. Sci. Imp. Petropol., IV, 279.

\* Distinguished by its very minute barbel, easily overlooked.

Genus 952. *REMILEGIA* Gill.*Remilegia* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 61 (*australis*).2857. *Remilegia australis* (Bennett).

Tropical seas; recorded by Dr. Lütken, from 10° N., 39° W.

*Echeneis australis* Bennett, Nar. Whaling Voyage, II, 273, pls. 24-26, 1840.Genus 953. *REMORA* Gill.*Remora* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 239 (*remora*).Subgenus *REMORA* Gill.2858. *Remora remora* (Linnaeus). *Remora*.

Warm seas, north to New York and San Francisco.

*Echeneis remora* Linnaeus, Syst. Nat., ed. x, 260, 1758, Pelago Indico.Subgenus *REMORINA*\* Jordan & Evermann.*Remorina*, Jordan & Evermann, new subgenus (*albescens*).2859. *Remora albescens* (Temminck & Schlegel).

Tropical Pacific, straying to America; a specimen taken at La Paz, Gulf of California.

*Echeneis albescens* Temminck & Schlegel, Fauna Japonica, Poiss., 372, pl. 120, fig. 3, 1842, Japan, no definite locality.Subgenus *REMOROPSIS* Gill.*Remoropsis* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 60 (*brachyptera*).2860. *Remora brachyptera* (Lowe).

Warm seas, occasionally north to Cape Cod.

*Echeneis brachyptera* Lowe, Proc. Zool. Soc. Lond. 1839, 89, Madeira.Genus 954. *RHOMBOCHIRUS* Gill.*Rhombochirus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 88 (*osteochir*).2861. *Rhombochirus osteochir* (Cuvier).

West Indies, north to Cape Cod.

*Echeneis osteochir* Cuvier, Règne Animal, ed. 2, II, 348, 1829, no locality given.

## Suborder TÆNIOSOMI. The Ribbon-Fishes.

## Family CCXV. TRACHYPTERIDÆ. The King of the Herrings.

Genus 955. *TRACHYPTERUS* Gouan.*Trachypterus* Gouan, Hist. Nat. Poiss., 104, 1770 (*trachyrhynchus*).2862. *Trachypterus rex-salmonorum* Jordan & Gilbert.

Off coast of California.

*Trachypterus rex-salmonorum* Jordan & Gilbert, Proc. Cal. Ac. Sci. 1894, 145, pl. 9, open sea, outside Bay of San Francisco.

## Family CCXVI. REGALECIDÆ.

Genus 956. *REGALECUS* Ascanius.*Regalecus* Ascanius, Icones Rerum Naturalium, pl. 11, 1772 (*glesne*).2863. *Regalecus glesne* Ascanius.

Sea off Bergen, Norway.

*Regalecus glesne* Ascanius, Icones Rerum Nat., 2d Cayer, pl. 11, 1772, sea off Bergen, Norway.

## Family CCXVII. STYLEPHORIDÆ.

Genus 957. *STYLEPHORUS* Shaw.*Stylphorus* Shaw, Trans. Linn. Soc. Lond., I, 1791, 90 (*chordatus*).2864. *Stylphorus chordatus* Shaw.

Atlantic, between Cuba and Martinique.

*Stylphorus chordatus* Shaw, Trans. Linnæan Soc., I, 1791, 92, pl. 6, Atlantic, between Cuba and Martinique.

\* Distinguished by the fin rays.

Trachypterms brachims Paey .

Gobceox Indis Richardson,  
near cephalus.

## Suborder XENOPTERYGII. The Cling-Fishes.

## Family CCXVIII. GOBIESOCIDÆ. Cling-Fishes.

## Genus 958. CAULARCHUS Gill.

*Caularchus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 330 (*mæandricus*).

2865. *Caularchus mæandricus* (Girard). *Suckfish*.

Pacific Coast of United States, from Vancouver Island to Monterey.

*Lepidogaster mæandricus* Girard, Pac. R. R. Surv., x, 130, 1858, San Luis Obispo, California, and the Farallones.

## Genus 959. BRYSSETÆRES Jordan &amp; Evermann.

*Bryssetæres* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 230 (*pinniger*).

2866. *Bryssetæres pinniger* (Gilbert).

Gulf of California; known from Puerto Refugio (Angel Island), San Luis Gonzales Bay, and La Paz.

*Gobiesox pinniger* Gilbert, Proc. U. S. Nat. Mus. 1890, 94, Puerto Refugio, Gulf of California.

Genus 960. GOBIESOX Lacépède. *Clingfishes*.

*Gobiesox* Lacépède, Hist. Nat. Poiss., II, 595, 1799 (*cephalus*).

## Subgenus CAULISTIUS Jordan &amp; Evermann.

*Caulistius* Jordan & Evermann, new subgenus (*papillifer*).

2867. *Gobiesox papillifer* Gilbert.

Magdalena Bay, Lower California.

*Gobiesox papillifer* Gilbert, Proc. U. S. Nat. Mus. 1890, 96, Magdalena Bay, Lower California.

## Subgenus GOBIESOX Lacépède.

2868. *Gobiesox gyrinus* Jordan & Evermann.

West Indies.

*Gobiesox gyrinus* Jordan & Evermann, Fishes North and Middle America, 1896, Cordova.

2869. *Gobiesox nigripinnis* Peters.

Puerto Cabello, near Aspinwall.

*Gobiesox nigripinnis* Peters, Berliner Monatsber. 1859, 412, Puerto Cabello, near Aspinwall.

2870. *Gobiesox cephalus* Lacépède. *Tétard; Testar*.

West Indies.

*Gobiesox cephalus* Lacépède, Hist. Nat. Poiss., II, 595, 1798, Martinique.

2871. *Gobiesox strumosus* Cope.

South Atlantic Coast, South Carolina to Florida.

*Gobiesox strumosus* Cope, Proc. Ac. Nat. Sci. Phila. 1870, 121, Hilton Head, South Carolina.

2872. *Gobiesox virgatulus* Jordan & Gilbert.

From Pensacola Bay north to Charleston, South Carolina.

*Gobiesox virgatulus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 293, Pensacola, Florida.

2873. *Gobiesox adustus* Jordan & Gilbert.

Pacific coast of Mexico at Mazatlan.

*Gobiesox adustus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 360, Mazatlan, Mexico.

2874. *Gobiesox funebris* Gilbert.

Gulf of California; Puerto Refugio (Angel Island) and La Paz.

*Gobiesox funebris* Gilbert, Proc. U. S. Nat. Mus. 1890, 95, Puerto Refugio, Gulf of California.

2875. *Gobiesox pœcilophthalmus* Jenyns.

Chatham Island, Galapagos Archipelago.

*Gobiesox pœcilophthalmus* Jenyns, Voy. Beagle, Fishes, 141, 1842, Chatham Island.



2876. *Gobiesox rhodospilus* Günther.

Panama.

*Gobiesox rhodospilus* Günther, Proc. Zool. Soc. Lond. 1864, 25, Panama.

2877. *Gobiesox macrophthalmus* Günther.

Probably West Indies.

*Gobiesox macrophthalmus* Günther, Cat., III, 502, 1861, locality unknown.

2878. *Gobiesox cerasinus* Cope.

St. Martins, West Indies.

*Gobiesox cerasinus* Cope, Trans. Amer. Philos. Soc., XIV, 1871, 473, St. Martins, West Indies.

Subgenus *SICYANES* Müller & Troschel.

*Sicyanex* Müller & Troschel.

2879. *Gobiesox erythropis* Jordan & Gilbert.

Mazatlan; also Tres Marias Islands.

*Gobiesox erythropis* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 300, Mazatlan, Mexico.

2880. *Gobiesox rubiginosus* (Poey).

Matanzas, Cuba.

*Licejus rubiginosus* Poey, Synopsia, 391, 1868, wharves of Palmasola, Matanzas, Cuba.

2881. *Gobiesox carneus* (Poey).

Matanzas, Cuba.

*Sicyanex carneus* Poey, Syn., 392, 1868, wharf of Palmasola, Matanzas, Cuba.

2882. *Gobiesox hares* Jordan & Bollman.

Green Turtle Cay, Bahamas.

*Gobiesox hares* Jordan & Bollman, Proc. U. S. Nat. Mus. 1888, 552, Green Turtle Cay, Bahamas.

2883. *Gobiesox punctulatus* (Poey).

Cuba.

*Sicyanex punctulatus* Poey, Enumeratio, 124, 1875, Havana.

2884. *Gobiesox fasciatus* (Peters).

Puerto Cabello, near Aspinwall.

*Sicyanex fasciatus* Peters, Monatsber. Berl. Ac. 1859, 412, Puerto Cabello.

Genus 961. *RIMICOLA* Jordan & Evermann.

*Rimicola* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 231 (*muscarum*).

2885. *Rimicola muscarum* (Meek & Pierson).

Monterey Bay, California.

*Gobiesox muscarum* Meek & Pierson, Proc. Cal. Ac. Sci. 1896, 571, pl. 71, Monterey Bay, California.

2886. *Rimicola eigenmanni* (Gilbert).

Point Loma, near San Diego, California.

*Gobiesox eigenmanni* Gilbert, Proc. U. S. Nat. Mus. 1890, 96, Point Loma, near San Diego, California.

Genus 962. *ARBACIOSA* Jordan & Evermann.

*Arbaciosa* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 290 (*zebra*).

2887. *Arbaciosa rhessodon* (Rosa Smith).

San Diego to the northern part of the Gulf of California.

*Gobiesox rhessodon* Rosa Smith, Proc. U. S. Nat. Mus. 1881, 140, San Diego, California.

2888. *Arbaciosa humeralis* (Gilbert).

Gulf of California; Puerto Refugio, Angel Island; La Paz.

*Gobiesox humeralis* Gilbert, Proc. U. S. Nat. Mus. 1890, 95, Puerto Refugio, Gulf of California.

2889. *Arbaciosa rupestris* (Poey).

Coral reefs of Cuba.

*Gobiesox rupestris* Poey, Memorias, II, 283, 1861, Cuba.

*Gobiesox androsensis* Rosen Lind Mus.  
Andros.

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**2890. *Arbacia zebra* (Jordan & Gilbert).**

Mazatlan, Mexico.

*Gobiesox zebra* Jordan & Gilbert, Proc. U. S. N. M. 1881, 395, Mazatlan, Mexico.**2891. *Arbacia eos* (Jordan & Gilbert).**

Pacific Coast of Mexico.

*Gobiesox eos* Jordan & Gilbert, Proc. U. S. N. M. 1881, 360, Mazatlan, Mexico.**Suborder ANACANTHINI. The Jugular Fishes.****Family CCXIX. MERLUCCIIDÆ. The Hakes.****Genus 963. MERLUCCIUS Rafinesque.***Merluccius* Rafinesque, Carrat. di Alc. Nuovi Gen., etc., 25, 1810 (*emiridus*).**2892. *Merluccius bilinearis* (Mitchill).**

Coast of New England and northward.

*Stomodon bilinearis* Mitchill, Rept. Fish. N. Y., 7, 1814, New York.**2893. *Merluccius merluccius* (Linnæus).**

Coasts of Europe, straying to Greenland.

*Gadus merluccius* Linnæus, Syst. Nat., ed. x, 254, 1758, no locality.**2894. *Merluccius productus* (Ayres).**

Pacific Coast, from Santa Barbara northward.

*Merlangus productus* Ayres, Proc. Cal. Ac. Sci. 1855, 64, no locality given; types from San Francisco market, probably from San Francisco Bay.**Family CCXX. GADIDÆ.****Genus 964. BOREOGADUS Günther.***Boreogadus* Günther, Cat., iv, 336, 1862 (*fabricii*).**2895. *Boreogadus saida* (Lepechin).**

Arctic seas, Greenland to Alaska and northern Russia; common in the far North.

*Gadus saida* Lepechin, Nov. Comm. Ac. Scient. Petrop. 1774, 512.**Genus 965. POLLACHIUS Nilsson. Pollacks.***Pollachius* Nilsson, in Bonaparte, Cat. Met. Pesci Europ., 45, 1846 (*pollachius*).**2896. *Pollachius chalcogrammus* (Pallas).**

North Pacific, south to Sitka.

*Gadus chalcogrammus* Pallas, Zoogr. Rosso-Asiat., III, 198, 1811, Kamchatka.**2897. *Pollachius fucensis* Jordan & Gilbert.**

Puget Sound.

*Pollachius fucensis* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1883, 315, Puget Sound at Tacoma, Washington.**2898. *Pollachius virens* (Linnæus). Pollack; Coalfish; Green-cod.**

North Atlantic; common northward on both coasts, south to Cape Cod.

*Gadus virens* Linnæus, Syst. Nat., ed. x, 253, 1758, ocean, off Europe.**Genus 966. ELEGINUS Fischer.***Eleginus* Fischer, Mém. Soc. Nat. Moscow, v, 4, 2d ed., 252-257, 1813 (*navaga*).**2899. *Eleginus navaga* Kölreuter.***Gadus navaga* Kölreuter, Nov. Comm. Acad. Petrop., xiv, 1770, 484, pl. 12, coast of northern Russia.**Genus 967. MICROGADUS Gill. Tomcods.***Microgadus* Gill, Proc. Ac. Nat. Sci. Phila. 1865, 69 (*proximus*).**2900. *Microgadus proximus* (Girard). California Tomcod.**

West coast of North America, from Monterey to Alaska.

*Gadus proximus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 141, San Francisco.**2901. *Microgadus tomcod* (Walbaum). Tomcod; Frostfish.**

East coast of North America, from Virginia to Labrador.

*Gadus tomcod* Walbaum, Artedi Pisc., 133, 1792, Long Island; after Schöpl.

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Genus 968. *GADUS* (Artedi) Linnaeus. *Codfishes*.

*Gadus* (Artedi) Linnaeus, Syst. Nat., ed. x, 251, 1758 (*callarias*).

2902. *Gadus ogac* Richardson.

Godhavn, Greenland.

*Gadus ogac* Richardson, Faun. Bor.-Amer., III, 246, 1836, no locality.

2903. *Gadus callarias* Linnaeus. *Common Codfish*.

North Atlantic, south to Virginia.

*Gadus callarias* Linnaeus, Syst. Nat., ed. x, 252, 1758, Baltic Sea and ocean off Europe.

2904. *Gadus macrocephalus* Tilesius. *Pacific Cod*.

Bering Sea, south to coast of Oregon.

*Gadus macrocephalus* Tilesius, Mém. Ac. Sci. St. Petro., II, 1810, 360, Bering Sea.

Genus 969. *MELANOGRAMMUS* Gill. *Haddocke*.

*Melanogrammus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 280 (*aglifinus*).

2905. *Melanogrammus æglifinus* (Linnaeus).

North Atlantic, on both coasts.

*Gadus æglifinus* Linnaeus, Syst. Nat., ed. x, 251, 1758, and ed. XII, 435, 1766, ocean off Europe.

Genus 970. *LEPIDION* Swainson.

*Lepidion* Swainson, Nat. Hist. Class. Fishes, II, 1839.

2906. *Lepidion verecundum* Jordan & Cramer.

Off coast of Lower California.

*Lepidion verecundum* Jordan & Cramer, Proc. U. S. Nat. Mus. 1896, Clarion Island, Mexico.

Genus 971. *ANTIMORA* Günther.

*Antimora* Günther, Ann. Mag. Nat. Hist. 1876, 2 (*rostrata*).

2907. *Antimora viola* (Goode & Bean).

Banks of Newfoundland and southward.

*Haloporphyrus viola* Goode & Bean, Proc. U. S. Nat. Mus. 1878, 256, Le Have Bank, in 400 fathoms.

2908. *Antimora microlepis* Bean.

Pacific Ocean, off Queen Charlotte Islands.

*Antimora microlepis* Bean, Proc. U. S. Nat. Mus. 1890, 38, latitude 51° 00' 23" N., longitude 130° 34' W., off Cape St. James, Queen Charlotte Islands, in 875 fathoms.

Genus 972. *PHYSICULUS* Kaup.

*Physiculus* Kaup, Wiegmann's Archiv 1858, 88 (*dalwigkii*).

2909. *Physiculus fulvus* Bean.

Caribbean Sea and north in the Gulf Stream to latitude 35°.

*Physiculus fulvus* Bean, Proc. U. S. Nat. Mus. 1884, 240, 40° 1' N., 69° 56' W., 79 fathoms.

Genus 973. *LOTELLA* Kaup.

*Lotella* Kaup, Wiegmann's Archiv, I, 1858, 88 (*schlegeli*).

2910. *Lotella maxillaris* Bean.

Gulf Stream.

*Lotella maxillaris* Bean, Proc. U. S. Nat. Mus. 1884, 241, latitude 39° 55' N., longitude 70° 28' W., in 396 fathoms.

2911. *Lotella nematopus* (Gilbert)

On both coasts of Lower California, in deep water.

*Physiculus nematopus* Gilbert, Proc. U. S. Nat. Mus. 1890, 114, on both coasts of Lower California, at Albatross Stations 2997, 3011, 3015, and 3016, in 71 to 221 fathoms.

2912. *Lotella kaupi* (Poey.)

Cuba.

*Physicula kaupi* Poey, Repertorio, I, 186, 1865, Matanzas, Cuba.

? *Gadus ruber* Lac. - ngac.

Order

Chondrobrachia for Aleocephalus

(Podaleles) Regan

Proc. Zool. Soc. London

Sci Congr. 1910.

**2913. *Lotella rastrelliger* (Gilbert).**

On both coasts of Lower California, in deep water.

*Physiculus rastrelliger* Gilbert, Proc. U. S. Nat. Mus. 1890, 113, on both coasts of Lower California, at Albatross Stations 2987 and 3045, in 171 and 184 fathoms.

**Genus 974. *URALEPTUS* Costa.**

*Uraleptus* Costa, Wiegmann's Archiv 1858, 87 (*maraldi*).

**2914. *Uraleptus maraldi* (Risso).**

Nice; Madeira; Naples and Catania; also off island of Nevis, in the West Indies.

*Gadus maraldi* Risso, Ichth. Nice, 123, 1810, pl. 6, fig. 13, Nice.

**Genus 975. *LOTA* Cuvier. *Burbot*s.**

*Lota* Cuvier, Règne Animal, ed. 1, II, 215, 1817 (*lota*).

**2915. *Lota maculosa* (LeSueur). *Burbot*; *Lake Lawyer*; *Ling*; *Alekey Trout*.**

New England and Great Lakes region, north to the Arctic seas, and west to the upper Missouri and Columbia River basins.

*Gadus maculosus* LeSueur, Jour. Ac. Nat. Sci. Phila., I, 83.

**Genus 976. *MOLVA* Nilsson. *Lings*.**

*Molva* Nilsson, Skandinav. Fauna, IV, 573, 1832 (*molva*).

**2916. *Molva molva* (Linnæus).**

Spitzbergen to Gulf of Gascon; Arcachon; San Juan de Luz; Iceland, Greenland; Farøe Islands.

*Gadus molva* Linnæus, Syst. Nat., ed. x, 254, 1758, and ed. XII, 439, 1766, no locality.

**Genus 977. *PHYCIS* Bloch & Schneider. *Codlings*. *preace*, *Rose 1793, not present***

*Phycis* Bloch & Schneider, Syst. Ichth., 56, 1801 (*tinca*).

**2917. *Phycis regius* (Walbaum). *β Symphycus job***

North Atlantic, south to Cape Fear.

*Blennius regius* Walbaum, Artedi Pisc., 186, 1792, no locality.

**2918. *Phycis cirratus* Goode & Bean.**

Deep waters of the Gulf of Mexico.

*Phycis cirratus* Goode & Bean, Ocean. Ichth., 358, 1896, Gulf of Mexico, at 29° 03' 15" N., 88° 16' W.

**2919. *Phycis floridanus* Bean & Dresel.**

Pensacola, Florida.

*Phycis floridanus* Bean & Dresel, Proc. Biol. Soc. Wash. 1884, 100, Pensacola.

**2920. *Phycis earlli* Bean.**

Charleston, South Carolina.

*Phycis earlli* Bean, Proc. U. S. Nat. Mus., III, 1880, 69, Charleston, S. C.

**2921. *Phycis tenuis* (Mitchill).**

North Atlantic, south to Virginia; abundant northward.

*Gadus tenuis* Mitchill, Trans. Lit. and Phil. Soc. N. Y., I, 1815, 371, New York.

**2922. *Phycis chuss* (Walbaum).**

Atlantic Coast, chiefly northward.

*Blennius chuss* Walbaum, Artedi Pisc., 186, 1792, no locality.

**2923. *Phycis chesteri* Goode & Bean.**

Off Massachusetts, in deep water.

*Phycis chesteri* Goode & Bean, Proc. U. S. Nat. Mus. 1878, 256, off Cape Ann, in 140 fathoms.

**Genus 978. *LÆMONEMA* Günther.**

*Læmonema* Günther, Cat., IV, 356, 1862 (*yarrellii*).

**2924. *Læmonema barbatulum* Goode & Bean.**

Gulf Stream.

*Læmonema barbatula* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 204, 1883, Gulf Stream, in 32° 43' 25" N., 77° 20' 30' W., in 230 fathoms, and 28° 35' N., 73° 13' W.



**2925. *Læmonema melanurum* Goode & Bean.**

Caribbean Sea, north to New York.

*Læmonema melanurum* Goode & Bean, Ocean. Ichth., 363, 1896, 30° 44' N., 79° 26' W., in 440 fathoms.**Genus 979. *GAIDROPSARUS* Rafinesque. Rocklings.***Gaidropsarus* Rafinesque, Indice d'Itt. Sic., 11, 1810 (*mustellaris* = *medianus*).**2926. *Gaidropsarus reinhardti* (Krøyer).**

Greenland and east coast of United States.

*Motella reinhardti* Krøyer (ms.), 1852, Greenland.**2927. *Gaidropsarus ensis* (Reinhardt).**

New York to Greenland.

*Motella ensis* Reinhardt, Dansk. Vidensk. Selsk. Afh., VII, 15, 1838, Greenland.**2928. *Gaidropsarus septentrionalis* (Collett).**

Coasts of Norway and Greenland.

*Motella septentrionalis* Collett, Ann. Mag. Nat. Hist., 15, 82, 1874, Florø, Bergen, coast of Norway.**Genus 980. *RHINONEMUS* Gill.***Rhinonemus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 241 (*cimbrius*).**2929. *Rhinonemus cimbrius* (Linnaeus).***Gadus cimbrius* Linnaeus, Syst. Nat., ed. XII, 440; 1766, no locality.**Genus 981. *BROSMIUS* Cuvier. BROSMIE***Brosmius* Cuvier, Règne Animal, ed. 1, II, 222, 1817 (*brosme*).**2930. *Brosmius brosme* (Müller).**

Polar regions, south to Cape Cod.

*Gadus brosme* Müller, Prodr. Zool. Dan., 41, 1776, no locality.**Family CCXXI. *MACRURIDÆ*. The Grenadiers.****Genus 982. *LIONURUS* Günther.***Lionurus* Günther, Challenger Rept., XXII, 141, 1887 (*filicauda*).**2931. *Lionurus filicauda* Günther.**

Antarctic Ocean and deep sea, off both coasts of South America.

*Coryphænoides filicauda* Günther, Ann. Mag. Nat. Hist. 1878, 27, Antarctic Ocean at Challenger Stations 157, 299, and 325.**2932. *Lionurus liolepis* Gilbert.**

Off coast of southern California, in deep water.

*Macrurus* (*Lionurus*) *liolepis* Gilbert, Proc. U. S. Nat. Mus., XIII, 1890, 117, coast of California, at Albatross Station 2980, 33° 49' 45" N., 119° 24' 30" W., in 600 fathoms.**Genus 983. *HYMENOCEPHALUS* Giglioli.***Hymenocephalus* Giglioli, Pelagos, Genoa, 228, 1884 (*italicus*).**2933. *Hymenocephalus cavernosus* (Goode & Bean).**

Gulf of Mexico, in deep water.

*Bathygadus cavernosus* Goode & Bean, Proc. U. S. N. M. 1885, 598, Albatross Station 2398, at lat. 28° 45' N., long. 86° 26' W., in 227 fathoms.**2934. *Hymenocephalus goodei* (Günther). \***

Gulf Stream, south of New England, in deep water.

*Macrurus goodei* Günther, Challenger Rept., XXII, 136; 1887, between latitude 40° and 41° N. and longitude 64° and 68° W., in 304 to 1,242 fathoms.**Genus 984. *BATHYGADUS* Günther.***Bathygadus* Günther, Ann. Mag. Nat. Hist. 1878, 23 (*colloides*).**2935. *Bathygadus favosus* Goode & Bean.**

Off Martinique, in deep water.

*Bathygadus favosus* Goode & Bean, Bull. Mus. Comp. Zool., XII, No. 5, 189, 1886, off Martinique, at Blake Station 80, in 472 fathoms.

Total

Enchelyopus = Rhinonemus

BROSME Oken Isis. 1817. 1182.  
Cuvier says "Les Brosmes".

~~Trachura~~ helocephalus Gilbert  
Stenodachneria argentea G+C.

Omit, not N. Amer.

hematichthys gooden  
hematichthys suborbitalis G.C. & S. & S.  
~~hematichthys~~ cyclolepis Gilbert.  
Morelet

a barrel

M. subtrachyp Gilis  
(Lett. 85).

M. lepluratus Gil & Townsend (= M. dosalis  
Gr.) Philof Is: close to M. acroly

M. occidentalis Gr  
Albatross  
Pectoralis (= M. magnus Gr)  
Pink

Bogorlovius Clarke J. G., Beng Sea  
Bogorlovius trisquamis Gr, Beng Sea

**2936. *Bathygadus arcuatus* Goode & Bean.**

Gulf of Mexico, in deep water.

*Bathygadus arcuatus* Goode & Bean, Bull. Mus. Comp. Zool., xii, No. 5, 158, 1886, off Martinique, in 334 fathoms.**2937. *Bathygadus longifilis* Goode & Bean.**

Deep waters of the Gulf of Mexico.

*Bathygadus longifilis* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 599, Gulf of Mexico, at Albatross Station 2392, latitude  $28^{\circ} 47' 30''$  N., longitude  $87^{\circ} 27'$  W., in 724 fathoms.**2938. *Bathygadus macrops* Goode & Bean.**

Deep waters of the Gulf of Mexico.

*Bathygadus macrops* Goode & Bean, Proc. U. S. N. M. 1885, 598, at Albatross Station 2396, in latitude  $28^{\circ} 34'$  N., longitude  $86^{\circ} 48'$  W., in 335 fathoms.**Genus 985. *MACROURUS* Bloch.***Macrourus* Bloch, Ichth., v, 152, 1787 (*rupestris*).**2939. *Macrourus berglax* Lacépède.**

Massachusetts to Greenland and Norway.

*Macrourus berglax* Lacépède, Hist. Nat. Poiss., iii, 170, 1800, Greenland.**2940. *Macrourus acrolepis* Bean.**

Straits of Juan de Fuca.

*Macrourus acrolepis* Bean, Proc. U. S. N. M. 1883, 362, Straits of Juan de Fuca.**2941. *Macrourus bairdi* Goode & Bean.**

West Indies to Massachusetts Bay.

*Macrourus bairdi* Goode & Bean, Amer. Jour. Sci. Arts. 1877, 471, Massachusetts Bay.**2942. *Macrourus stelgidolepis* Gilbert.**

Pacific Ocean, off Point Conception.

*Macrurus* (*Macrurus*) *stelgidolepis* Gilbert, Proc. U. S. Nat. Mus. 1890, 116, Albatross Station 2960,  $34^{\circ} 10' 45''$  N.,  $120^{\circ} 16' 45''$  W., in 267 fathoms.**2943. *Macrourus cinereus* Gilbert.**

North Pacific and Bering Sea.

*Macrourus cinereus* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 457, at Albatross Stations 3307, 3329, and 3340, latitude  $54^{\circ}$  to  $55^{\circ}$  N. and longitude  $155^{\circ}$  to  $171^{\circ}$  W., in 399 to 1033 fathoms.**Genus 986. *MALACOCEPHALUS* Günther.***Malacocephalus* Günther, Cat., iv, 396, 1862 (*lavis*).**2944. *Malacocephalus pectoralis* Gilbert.**

Off the coast of Oregon.

*Macrourus* (*Malacocephalus*) *pectoralis* Gilbert, Proc. U. S. Nat. Mus. 1891, 563, off the coast of Oregon, at Albatross Stations 3071, 3074, and 3075, in 685 to 877 fathoms.**Genus 987. *CELORHYNCHUS* Giorna.***Cælorhynchus* Giorna, Mém. Ac. Sci. Turin, xvi, 1803, 178, pl. 1, figs. 3 and 4 (*La Ville* L., *Cælorhynchus* Risso).**2945. *Cælorhynchus carminatus* (Goode).**

Caribbean Sea, north in the Gulf Stream to Long Island.

*Macrourus carminatus* Goode, Proc. U. S. Nat. Mus. 1880, 346, Gulf Stream,  $40^{\circ} 02' 54''$  N.,  $70^{\circ} 23' 40''$  W., in 115 fathoms.**2946. *Cælorhynchus occa* (Goode & Bean).**

Gulf of Mexico, in deep water.

*Macrourus occa* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 595, Gulf of Mexico,  $28^{\circ} 34'$  N.,  $86^{\circ} 48'$  W., in 335 fathoms.**2947. *Cælorhynchus caribbeus* (Goode & Bean).**

West Indies, to northern part of Gulf of Mexico.

*Macrourus caribbeus* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 594, northern part of Gulf of Mexico, in 210 fathoms.

**2948. *Cœlorhynchus scaphopsis* Gilbert.**

Gulf of California, in deep water.

*Macrurus* (*Cœlorhynchus*) *scaphopsis* Gilbert, Proc. U. S. Nat. Mus. 1890, 115, Gulf of California, at Albatross Station 3015, latitude 29° 19' N., longitude 112° 50' W, in 145 fathoms.**Genus 988. TRACHYRHYNCHUS Giorna.***Trachyrhynchus* Giorna, Mém. Ac. Sci. Turin, xvi, 1803, 178.**2949. *Trachyrhynchus helolepis* Gilbert.**

Off the coast of Central America.

*Trachyrhynchus helolepis* Gilbert, Proc. U. S. Nat. Mus. 1891, 562, west coast of Central America, at Albatross Station 2818, in deep water.**Genus 989. CORYPHÆNOIDES Gunner.***Coryphænoides* Gunner, Trondhj. Selsk. Skrift., iii, 50, 1765 (*rupestris*).**2950. *Coryphænoides rupestris* Gunner.**

Banks of Newfoundland to Norway.

*Coryphænoides rupestris* Gunner, Trondhj. Selsk. Skrift., iii, 50, 1765.**2951. *Coryphænoides carapinus* Goode & Bean.**

Gulf Stream.

*Coryphænoides carapinus* Goode & Bean, Bull. Mus. Comp. Zool., vol. x, No. 5, 197, 1883, Gulf Stream, latitude 40°, in deep water.**Genus 990. CHALINURA Goode & Bean.***Chalinura* Goode & Bean, Bull. Mus. Comp. Zool., vol. x, No. 5, 198, 1883 (*simula*).**2952. *Chalinura simula* Goode & Bean.**

Gulf Stream.

*Chalinura simula* Goode & Bean, Bull. Mus. Comp. Zool. x, No. 5, 198, 1883, Gulf Stream, about latitude 40°.**2953. *Chalinura serrula* Bean.**

East of Prince of Wales Island, in deep water.

*Chalinura serrula* Bean, Proc. U. S. Nat. Mus. 1890, 37, east of Prince of Wales Island, at Albatross Station 2859, in 1,569 fathoms.**2954. *Chalinura filifera* Gilbert.**

Off Queen Charlotte Island, in deep water.

*Chalinura filifera* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 458, off Queen Charlotte Island, at Albatross Station 3342.**Genus 991. NEMATONURUS Günther.***Nematonurus* Günther, Challenger Report, xxii, 124 and 150, 1887 (*armatus*).**2955. *Nematonurus gigas* (Vaillant).**

Atlantic and Pacific oceans.

*Coryphænoides gigas* Vaillant, Expd. Sci. Travailleur et Talisman, 232, pl. xx, fig. 2, 1888, off the Azores in 2,000 fathoms.**Family CCXXII. BREGMACEROTIDÆ.****Genus 992. BREGMACEROS (Cantor) Thompson.***Bregmaceros* (Cantor) Thompson, in Charlesworth's Mag Nat. Hist. 1840, 184 (*maclellandii*).**2956. *Bregmaceros maclellandii* Cantor.**

South Pacific and Indian oceans; also off coast of Panama.

*Bregmaceros maclellandii* Cantor ms., Thompson, in Charlesworth's Mag Nat Hist 1840, figure 185, India.**2957. *Bregmaceros atlanticus* Goode & Bean.**

Blake Stations 99 off Granada, and 113 off Nevis; also Station 185.

*Bregmaceros atlanticus* Goode & Bean, Bull. Mus. Comp. Zool., xii, No. 5, 185, 1886, off Nevis.

<sup>1 Boger's</sup>  
Chakura <sup>Chakura</sup> Boger's

hematomas { Serbotelates is genuine  
" { ~~capitula~~  
goodae  
B. badymant.

Bre

*Hypoglossoides hamiltoni*.  
Thompson near the nest.  
*H. robustus* Gill (Jamaica)  
near St Paul.).

5

## Order CC. HETEROSOMATA. The Flatfishes.

## Family CCXXIII. PLEURONECTIDÆ. The Flounders.

## Genus 993. ATHERESTHES Jordan &amp; Gilbert.

*Atheresthes* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 51 (*stomias*).

2958. *Atheresthes stomias* (Jordan & Gilbert). Arrow-Toothed Halibut.

San Francisco to Alaska.

*Platysomatichthys stomias* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 301, off San Francisco.

## Genus 994. REINHARDTIUS Gill.

*Reinhardtius* Gill, Cat. E. C. Fishes, 50, 1861 (*hippoglossoides*).

2959. *Reinhardtius hippoglossoides* (Walbaum). Greenland Halibut.

Arctic parts of the Atlantic, south to Finland and Grand Banks.

*Pleuronectes cynoglossus* Fabricius, Fauna Grœnlandica, 163, 1780, Greenland; not of Linnæus.

## Genus 995. HIPPOGLOSSUS Cuvier.

*Hippoglossus* Cuvier, Règne Animal, ed. 1, II, 221, 1817 (*hippoglossus*).

2960. *Hippoglossus hippoglossus* (Linnæus). Halibut.

All northern seas, southward in deep waters to France, Sandy Hook, and San Francisco.

*Pleuronectes hippoglossus* Linnæus, Syst. Nat., ed. x, 269, 1758, European Ocean.

## Genus 996. LYOPSETTA Jordan &amp; Goss.

*Lyopsetta* Jordan & Goss, in Jordan, Cat. Fish. N. A., 135, 1885 (*exilis*).

2961. *Lyopsetta exilis* (Jordan & Gilbert).

North Pacific, in rather deep water; San Francisco to Alaska.

*Hippoglossoides exilis* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 154, off San Francisco, between the Golden Gate and Point Reyes.

## Genus 997. EOPSETTA Jordan &amp; Goss.

*Eopsetta* Jordan & Goss, in Jordan, Cat., 135, 1885 (*jordani*).

2962. *Eopsetta jordani* (Lockington). California Sole.

West coast of United States, from Puget Sound to Monterey.

*Hippoglossoides jordani* Lockington, Proc. U. S. Nat. Mus. 1879, 73, San Francisco.

## Genus 998. HIPPOGLOSSOIDES Gottsche.

*Hippoglossoides* Gottsche, Wiegmann's Archiv 1835, 164 ("lamanda"=*platessoides*).

2963. *Hippoglossoides platessoides* (Fabricius).

North Atlantic, south to Cape Cod, and coasts of England and Scandinavia.

*Pleuronectes platessoides* Fabricius, Fauna Grœnlandica, 164, 1780, Greenland.

2964. *Hippoglossoides elassodon* Jordan & Gilbert.

Puget Sound and northward.

*Hippoglossoides elassodon* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 278, Puget Sound, at Seattle and Tacoma, Washington.

## Genus 999. PSETTICHTHYS Girard.

*Psettichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 140 (*melanostictus*).

2965. *Psettichthys melanostictus* Girard.

Pacific Coast of North America, from Alaska south to Monterey.

*Psettichthys melanostictus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 140, San Francisco; Astoria, Oregon.



Genus 1000. HIPPOGLOSSINA Steindachner.

*Hippoglossina* Steindachner, Ichth. Beitr., v, 13, 1876 (*macrops*).

2966. *Hippoglossina macrops* Steindachner.

Pacific Coast of Mexico, Mazatlan.

*Hippoglossina macrops* Steindachner, Ichth. Beitr., v, 13, pl. 3, 1876, Mazatlan.

2967. *Hippoglossina stomata* Eigenmann & Eigenmann.

Off San Diego, California.

*Hippoglossina stomata* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1890, 23, San Diego.

2968. *Hippoglossina bollmani* Gilbert.

Pacific Coast, off coast of Colombia.

*Hippoglossina bollmani* Gilbert, Proc. U. S. Nat. Mus. 1890, 123, off coast of Colombia at Albatross Station 2805, 7° 56' N., 79° 41' 30' W., in 51½ fathoms.

Genus 1001. XYSTREURYS Jordan & Gilbert.

*Xystreuryx* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1890, 34 (*holepis*).

2969. *Xystreuryx holepis* Jordan & Gilbert.

Coast of California, from Point Conception southward.

*Xystreuryx holepis* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1890, p. 34, Santa Barbara, California.

Genus 1002. PARALICHTHYS Girard.

*Paralichthys* Girard, U. S. Pac. R. R. Surv., x, 146, 1858 (*californicus*).

2970. *Paralichthys californicus* (Ayres). *Bastard Halibut*; *Monterey Halibut*.

Coast of California, Tomales Bay to San Diego.

*Hippoglossus californicus* Ayres, Proc. Cal. Ac. Sci. 1859, 29, and 1860, fig. 10, San Francisco.

2971. *Paralichthys brasiliensis* (Ranzani).

South America, said to range northward to Guatemala.

*Hippoglossus brasiliensis* Ranzani, Nov. Spec. Pisc., 10, tab. III, 1840, Brazil.

2972. *Paralichthys adspersus* (Steindachner).

Pacific Coast of tropical America; Cape San Lucas to Peru.

*Pseudorhombus adspersus* Steindachner, Ichth. Notizen, v, 1867, 9, pl. 2, Chin-chas Islands.

2973. *Paralichthys woolmani* Jordan & Williams.

Galapagos Islands.

*Paralichthys woolmani* Jordan & Williams, Proc. U. S. Nat. Mus. 1896, Galapagos Islands.

2974. *Paralichthys dentatus* (Linnaeus). *Summer Flounder*.

Atlantic Coast of United States from Cape Cod to Florida.

*Pleuronectes dentatus* Linnaeus, Syst. Nat., ed. XII, 1, 458, 1766, and of numerous copyists.

2975. *Paralichthys lethostigma* Jordan & Gilbert. *Southern Flounder*.

South Atlantic and Gulf coasts of United States, north to New York.

*Paralichthys lethostigma* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 237, Jacksonville, Florida.

2976. *Paralichthys squamilentus* Jordan & Gilbert.

South Atlantic and Gulf coasts of United States.

*Paralichthys squamilentus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, p. 303, Pensacola, Florida.

2977. *Paralichthys albigutta* Jordan & Gilbert.

South Atlantic and Gulf coasts of United States.

*Paralichthys albigutta* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 302, Pensacola; Beaufort.

*er asper moseri*, Hurup.

~~*hypoglossoides lanella*~~

*Ramulana dendroica*, n. sp.

**2978. *Paralichthys oblongus* (Mitchill). *Four-spotted Flounder*.**

Coasts of New England and New York.

*Pleuronectes oblongus* Mitchill, Trans. Lit. and Philos. Soc., 1, 1815, 391, New York.**2979. *Paralichthys æstuarinus* Gilbert & Scofield.**

Upper part of Gulf of California.

*Paralichthys æstuarinus* Gilbert & Scofield ms., 1896, near mouth of Colorado River.**Genus 1003. *ANCYLOPSETTA* GILL.***Ancylopsetta* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 224 (*quadrocellata*).**2980. *Ancylopsetta dendritica* Gilbert.**

Gulf of California.

*Ancylopsetta dendritica* Gilbert, Proc. U. S. Nat. Mus. 1890, 121, Gulf of California, at Albatross Station 3022, 30° 58' 30" N., 113° 17' 15" W., in 11 fathoms.**2981. *Ancylopsetta quadrocellata* Gill.**

South Atlantic and Gulf coasts of United States.

*Ancylopsetta quadrocellata* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 224, Pensacola (not *Platessa quadrocellata* Storer).**Genus 1004. *NOTOSEMA* Goode & Bean.***Notosema* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 193, 1883 (*dilecta*).**2982. *Notosema dilectum* (Goode & Bean).**

Gulf Stream.

*Notosema dilecta* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 193, 1883, Gulf Stream, off coast of South Carolina.**Genus 1005. *GASTROPSETTA* B. A. Bean.***Gastropsetta* B. A. Bean, Proc. U. S. Nat. Mus. 1894, 633 (*frontalis*).**2983. *Gastropsetta frontalis* B. A. Bean.**

Key West and Apalachicola, Florida.

*Gastropsetta frontalis* B. A. Bean, Proc. U. S. Nat. Mus. 1894, 633, Key West and Apalachicola, at Albatross Stations 2317 and 2373, in 45 fathoms.**Genus 1006. *BOTHUS* Rafinesque.***Bothus* Rafinesque, Carratteri di Alcuni Nuovi Gen., 23, 1810 (*Bothus rumolo* Rafinesque = *Pleuronectes rhombus* Linnæus).**Subgenus *LOPHOPSETTA* GILL.***Lophopsetta* Gill, Proc. U. S. Nat. Mus. 1888, 603 (*maculatus*).**2984. *Bothus maculatus* (Mitchill).**

Atlantic Coast of United States, from Cape Cod to South Carolina.

*Pleuronectes maculatus* Mitchill, Rept. Fish. N. Y., 9, 1814, New York.**Genus 1007. *TRICHOPSETTA* GILL.***Trichopsetta* Gill, Proc. U. S. Nat. Mus. 1888, 603 (*ventralis*).**2985. *Trichopsetta ventralis* (Goode & Bean).**

Gulf of Mexico, in deep water.

*Citharichthys ventralis* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 592, Gulf of Mexico, at Albatross Station 2386, 29° 15' N., 88° 6' W., in 60 fathoms.**Genus 1008. *ENGYOPHRYS* Jordan & Bollman.***Engyophrys* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 176 (*sancti-laurentii*).**2986. *Engyophrys sancti-laurentii* Jordan & Bollman.**

Pacific Ocean, off coast of Colombia.

*Engyophrys sancti-laurentii* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 176, Pacific Coast, off coast of Colombia, at Albatross Stations 2795, 7° 57' N., 78° 55' W., and 2805, 7° 56' N., 79° 41' 30' W., in 33 and 51 fathoms.

**Genus 1009. LI OGLOSSINA Gilbert.***Lioglossina* Gilbert, Proc. U. S. Nat. Mus. 1890, 122 (*tetrophthalmus*).**2987. *Lioglossina tetrophthalmus* Gilbert.**

Gulf of California.

*Lioglossina tetrophthalmus* Gilbert, Proc. U. S. Nat. Mus. 1890, 122, Gulf of California, at Albatross Stations 3014 and 3016, in 29 and 76 fathoms.**Genus 1010. AZEVIA Jordan & Goss.***Azevia* Jordan & Goss, Review Flounders and Soles, Rept. U. S. Fish Com. 1886 (1889), 271 (*panamensis*).**2988. *Azevia panamensis* (Steindachner).**

Pacific Coast of Central America.

*Citharichthys panamensis* Steindachner, Ichth. Beitr., iii, 62, 1875, Panama.**2989. *Azevia querna* Jordan & Bollman.**

Pacific Coast of America, off coast of Colombia.

*Azevia querna* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 174, off Colombia, at Albatross Stations 2800, 8° 51' N., 79° 31' 30" W., in 7 fathoms and 2803, 8° 38' N., 79° 31' 30" W., in 16 fathoms.**Genus 1011. CYCLOPSETTA Gill.***Cyclopsetta* Gill, Proc. U. S. Nat. Mus. 1888, 601 (*fimbriata*).**2990. *Cyclopsetta chittendeni* B. A. Bean.**

Trinidad Island.

*Cyclopsetta chittendeni* B. A. Bean, Proc. U. S. Nat. Mus. 1894, 635, fig. 2, Trinidad Island.**2991. *Cyclopsetta fimbriata* (Goode & Bean.)**

Deep waters of the Gulf of Mexico.

*Hemirhambus fimbriata* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 591, deep waters of Gulf of Mexico.**Genus 1012. CITHARICHTHYS Bleeker.***Citharichthys* Bleeker, Comptes Rendus Acad. Sci. Amsterd., xiii, Pleuron., 6, 1862 (*cayennensis* = *apilopterus*).**2992. *Citharichthys sordidus* (Girard).**

Pacific Coast of North America, in water of moderate depth from British Columbia to Lower California.

*Psettichthys sordidus* Girard, Proc. Ac. Nat. Sci. Phila., vii, 1854, 142, San Francisco.**2993. *Citharichthys fragilis* Gilbert.**

Gulf of California.

*Citharichthys fragilis* Gilbert, Proc. U. S. Nat. Mus. 1890, 120, Gulf of California, at Albatross Stations 3011, 3016, 3017, and 3033, in 18 to 76 fathoms.**2994. *Citharichthys xanthostigma* Gilbert.**

Magdalena Bay, west coast of Lower California, and in Gulf of California.

*Citharichthys xanthostigma* Gilbert, Proc. U. S. Nat. Mus. 1890, 120, west coast of Lower California in Magdalena Bay, and in the Gulf of California, at Albatross Stations 3039, 3013, and 3014, in 47 to 74 fathoms.**2995. *Citharichthys stigmaeus* Jordan & Gilbert.**

Coast of southern California.

*Citharichthys stigmaeus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 410, 411, Santa Barbara, California.**2996. *Citharichthys dinoceros* Goode & Bean.**

Deep waters of Gulf of Mexico.

*Citharichthys dinoceros* Goode & Bean, Bull. Mus. Comp. Zool., xii, No. 5, 157, 1886. R. M. H. n. q. e., St. Lucia and Barbados.**2997. *Citharichthys arctifrons* Goode.**

Deep waters of Gulf Stream.

*Citharichthys arctifrons* Goode, Proc. U. S. Nat. Mus. 1880, 341, 472, Gulf Stream, off southern New England Coast.

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*Cyclopsella querna.*

*Eltopus microstomus*

2998. *Citharichthys unicornis* Goode.  
Deep waters of the Gulf Stream.  
*Citharichthys unicornis* Goode, Proc. U. S. Nat. Mus. 1880, 342, Gulf Stream, southeast of New England.
2999. *Citharichthys macrops* Dresel.  
South Atlantic and Gulf coasts of United States.  
*Citharichthys macrops* Dresel, Proc. U. S. N. M. 1884, 539, Pensacola, Florida.
3000. *Citharichthys uhleri* Jordan & Evermann.  
West Indies.  
*Citharichthys uhleri* Jordan & Evermann, Fishes North and Middle America, 1896, West Indies.
3001. *Citharichthys spilopterus* Günther.  
Σ, Both coasts of tropical America, north to New Jersey and ~~Mazatlan~~.  
*Citharichthys spilopterus* Günther, Cat., iv, 1862, 421, Bahia; New Orleans; San Domingo; Jamaica.
3002. *Citharichthys gilberti* Jenkins & Evermann.  
Pacific Coast of tropical America, from Gulf of California to Panama.  
*Citharichthys gilberti* Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 157, Guaymas, Mexico.
3003. *Citharichthys microstomus* Gill. *an Etropus*  
Gulf of Mexico.  
*Citharichthys microstomus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 223, Beasley Point, New Jersey.
- Genus 1013. **ETROPUS** Jordan & Gilbert.  
*Etropus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 364 (*crossotus*).
3004. *Etropus crossotus* Jordan & Gilbert.  
Tropical America, on both coasts, north to Guaymas, Mexico, and Cape Hatteras, North Carolina.  
*Etropus crossotus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 364, Mazatlan.
3005. *Etropus rimosus* Goode & Bean.  
Gulf of Mexico.  
*Etropus rimosus* Goode & Bean, Proc. U. S. Nat. Mus., viii, 1885, 593, Gulf of Mexico, at Albatross Station 2408, 28° 28' N., 84° 25' W., in 210 fathoms.
- Genus 1014. **MONOLENE** Goode.  
*Monolene* Goode, Proc. U. S. Nat. Mus. 1880, 338 (*sessilicauda*).
3006. *Monolene sessilicauda* Goode.  
Deep waters of the Gulf Stream.  
*Monolene sessilicauda* Goode, Proc. U. S. Nat. Mus. 1880, pp. 337, 338, deep water south of New England.
3007. *Monolene atrimana* Goode & Bean.  
Deep water of the Caribbean Sea.  
*Monolene atrimana* Goode & Bean, Bull. Mus. Comp. Zool., xii, 155, 1886, deep water off Barbados.
- Genus 1015. **PLEURONICHTHYS** Girard.  
*Pleuronichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 139 (*cœnosus*).
3008. *Pleuronichthys decurrens* Jordan & Gilbert.  
Pacific Coast of United States, south to Monterey.  
*Pleuronichthys decurrens* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 453, San Francisco; Monterey Bay.
3009. *Pleuronichthys verticalis* Jordan & Gilbert.  
Coast of California, in deep water.  
*Pleuronichthys verticalis* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 49, San Francisco.
3010. *Pleuronichthys cœnosus* Girard.  
Alaska, southward to San Diego; most common about Puget Sound.  
*Pleuronichthys cœnosus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 139, San Francisco.



Genus 1016. *HYPSPSETTA* GIL.*Hypsopsetta* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 195 (*guttulatus*).3011. *Hypsopsetta guttulata* (Girard). *Diamond Flounder*.

Coast of California, Cape Mendocino to Magdalena Bay.

*Pleuronichthys guttulatus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 137, probably Tomales Bay, California.Genus 1017. *PAROPHRYA* Girard.*Parophrys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 139 (*vetulus*).3012. *Parophrys vetulus* Girard.

Pacific Coast of North America, Alaska to Santa Barbara.

*Parophrys vetulus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 140, California.Genus 1018. *INOPSETTA* Jordan & Goss.*Inopsetta* Jordan & Goss, in Jordan, Cat. Fishes N. A., 136, 1885 (*ischyrus*).3013. *Inopsetta ischyra* (Jordan & Gilbert).

Puget Sound, probably northward to Alaska.

*Parophrys ischyra* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 276 and 463, Puget Sound.Genus 1019. *ISOPSETTA* Lockington.*Isopsetta* Lockington, in Jordan & Gilbert, Synopsis, 832, 1888 (*isolepis*).3014. *Isopsetta isolepis* (Lockington).

Puget Sound to Point Conception, in rather deep water.

*Lepidopsetta isolepis* Lockington, Proc. U. S. N. M. 1880, 325, San Francisco.Genus 1020. *LEPIDOPSETTA* Gill.*Lepidopsetta* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 195 (*umbrosus*).3015. *Lepidopsetta bilineata* (Ayres).

Pacific Coast of North America, Alaska to Monterey.

*Platessa bilineata* Ayres, Proc. Cal. Ac. Sci. 1855, 40, San Francisco.Genus 1021. *LIMANDA* Gottsche.*Limanda* Gottsche, Wiegmann's Archiv 1835, 100 (*limanda*).3016. *Limanda ferruginea* (Storer).

Atlantic Coast of North America, Labrador to New York.

*Platessa ferruginea* Storer, Fishes Massachusetts, 141, pl. 2, 1839, Cape Ann.3017. *Limanda proboscidea* Gilbert.

Bristol and Herendeen bays, Alaska.

*Limanda proboscidea* Gilbert, Rept. U. S. F. C. 1893 (1896), 460, Bristol Bay Alaska, at Albatross Stations 3239, 3240, and 3248, in 11 to 21 fathoms.3018. *Limanda aspera* Pallas.

Coasts of Alaska and Kamchatka.

*Pleuronectes asper* Pallas, Zoogr. Rosso-Asiat., III, 425, 1811, east coast of Siberia.3019. *Limanda bean* Goode.

Deep water, off coast of New England.

*Limanda bean* Goode, Proc. U. S. Nat. Mus. 1880, 473, southern coast of New England.Genus 1022. *PSEUDOPLEURONECTES* Bleeker.*Pseudopleuronectes* Bleeker, Compt. Rend. Ac. Amst., Plour., 7, 1862 (*planus*).3020. *Pseudopleuronectes americanus* (Walbaum). *Common Flatfish or Winter Flounder*.

Atlantic Coast of North America, from Labrador to Cape Lookout.

*Pleuronectes americanus* Walbaum, Artedii Piscium, 113, 1792, Long Island; based on the "Flounder" of Schöpl.3021. *Pseudopleuronectes pinnifasciatus* (Kner).

Sea of Kamchatka, Decastris Bay.

*Pleuronectes pinnifasciatus* Kner in Steindachner, Ueber einige Pleuronectiden, etc., aus Decastris Bay, 2, pl. 1, fig. 1, 1870, Decastris Bay.

*Lepidopsetta umbrosa.*

*Leopoldia obscura* Herveyi  
Shum.

*Panzeria*  
~~*Agrostis*~~ *taeniopetala* n.g.

**Genus 1023. PLEURONECTES (Artedi) Linnæus.**

*Pleuronectes* (Artedi) Linnæus, Syst. Nat., ed. x, 268, 1758 (includes all flounders).

**3022. *Pleuronectes quadrituberculatus* Pallas.**

Coasts of Alaska and Kamchatka.

*Pleuronectes quadrituberculatus* Pallas, Zoogr. Rosso-Asiat., III, 423, 1811, sea between Kamchatka and Alaska.

**Genus 1024. LIOPSETTA Gill.**

*Liopsetta* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 217 (*glaber*).

**3023. *Liopsetta putnami* (Gill).**

Atlantic Coast of North America, from Cape Cod northward to Labrador and beyond.

*Euchalorodus putnami* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 216-221, Salem, Massachusetts.

**3024. *Liopsetta glacialis* (Pallas).**

Arctic Ocean, south to St. Michaels.

*Pleuronectes glacialis* Pallas, Itin., III, App., 706, 1776, mouth of river Obi.

**Genus 1025. PLATOPHRYS Swainson.**

*Platophrys* Swainson, Nat. Hist. Classn. Fishes, etc., II, 302, 1839 (*ocellatus*).

**3025. *Platophrys spinosus* (Poey).**

West Indies.

*Rhomboidichthys spinosus* Poey, Synopsis, 409, 1868, Cuba.

**3026. *Platophrys tæniopterus* Gilbert.**

Gulf of California and western coast of Lower California.

*Platophrys tæniopterus* Gilbert, Proc. U. S. Nat. Mus. 1890, 118, Gulf of California and coast of Lower California.

**3027. *Platophrys constellatus* Jordan & Evermann.**

Galapagos Archipelago.

*Platophrys constellatus* Jordan & Evermann, Fishes North and Middle America, 1896, Galapagos Islands.

**3028. *Platophrys ocellatus* Swainson.**

Tropical America; sandy shores from Long Island to Rio Janeiro.

*Platophrys ocellatus* Swainson, Nat. Hist. Classn. Fishes, II, 302, 1839, no locality given.

**3029. *Platophrys maculifer* (Poey).**

West Indies.

*Pleuronectes maculiferus* Poey, Memorias, II, 316, 1860, Cienfuegos, Cuba.

**3030. *Platophrys ellipticus* (Poey).**

West Indies.

*Pleuronectes ellipticus* Poey, Memorias, II, 315, 1860, Cuba.

**3031. *Platophrys lunatus* (Linnæus).**

West Indies.

*Pleuronectes lunatus* Linnæus, Syst. Nat., ed. x, 269, 1758; based on Catesby, and of the various copyists.

**3032. *Platophrys leopardinus* (Günther).**

Gulf of California.

*Rhomboidichthys leopardinus* Günther, Cat., IV, 434, 1862, locality unknown.

**Genus 1026. SYACIUM Ranzani.**

*Syacium* Ranzani, Nov. Spec. Pisc., Dis. Sec. 1840, 20 (*micrurum*).

**3033. *Syacium papillosum* (Linnæus).**

West Indies.

*Pleuronectes papillosum* Linnæus, Syst. Nat., ed. x, 271, 1758; based on Marcgrave, and of the earlier copyists.

3034. *Byacium latifrons* (Jordan & Gilbert).

Pacific Coast of tropical America; Panama.

*Citharus latifrons* Jordan & Gilbert, Bull. U. S. F. C. 1881, 334, Panama.3035. *Byacium ovale* (Günther).

Pacific Coast of Tropical America, Mazatlan to Panama.

*Hemirhamphus ovalis* Günther, Proc. Zool. Soc. Lond. 1864, 154, Panama.3036. *Byacium micrurum* Ranzani.

West India; Key West to Rio Janeiro.

*Byacium micrurum* Ranzani, Nov. Spec. Pisc. Disc. Soc., 1840, 20, pl. 5, Brazil.Genus 1027. *PLATICTHYS* Girard.*Platichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 136 (*rugosus* = *stellatus*).3037. *Platichthys stellatus* Pallas. *Californus* *Floader*.

Pacific Coast of America, from Point Conception to the Arctic Ocean, and south to Sakhalin.

*Pleuronectes stellatus* Pallas, Zoogr. Rosso-Asiat., III, 416, 1811, Alaska.Genus 1028. *EMBASCHTHYS* Jordan & Evermann.*Embaschthys* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*bathybius*).3038. *Embaschthys bathybius* (Gilbert).

Coast of California south of Point Conception.

*Cynoglossus bathybius* Gilbert, Proc. U. S. Nat. Mus. 1890, 123, Santa Barbara Channel, at Albatross Station 2980, in 603 fathoms.Genus 1029. *MICROSTOMUS* Gottsche.*Microstomus* Gottsche, Wiegmann's Archiv 1835, 150 (*latidens*); not *Microstoma* Risso, 1826.3039. *Microstomus kitt* (Walbaum). *Smear* *Deb*.

Arctic Europe, west to the sea between Greenland and Iceland.

*Pleuronectes kitt* Walbaum, Artedi Piscium, III, 120, 1792, after Ray; the description in part confused with that of *Lepidorhombus*.3040. *Microstomus pacificus* (Lockington).

Pacific Coast of North America, Monterey to Vancouver Island, and probably northward.

*Glyptocephalus pacificus* Lockington, Rept. Cal. Com. Fisheries 1878-79, 43, off Point Reyes, California.Genus 1030. *GLYPTOCEPHALUS* Gottsche.*Glyptocephalus* Gottsche, Wiegmann's Arch. 1835, 156 (*caeruleus* = *cynoglossus*).3041. *Glyptocephalus cynoglossus* (Linnaeus).

North Atlantic, chiefly in deep water, south to Cape Cod and France.

*Pleuronectes cynoglossus* Linnaeus, Syst. Nat., ed. x, 268, 1758; after Gronow.3042. *Glyptocephalus zachirus* Lockington.

Deep waters of the Northern Pacific; thus far known only from about San Francisco.

*Glyptocephalus zachirus* Lockington, Proc. U. S. Nat. Mus. 1879, 88, San Francisco.Family CCXXIV. *SOLEIDÆ*. The Soles.Genus 1031. *ACHIRUS* Lacépède.*Achirus* Lacépède, Hist. Nat. Poiss., IV, 659, 1803 (*fasciatus*, etc.).3043. *Achirus achirus* (Linnaeus).

Atlantic coasts of tropical America.

*Pleuronectes achirus* Linnaeus, Sys. Nat., ed. x, 268, 1758; based on Gronow.3044. *Achirus inscriptus* Gosse.

West India, north to Key West.

*Achirus inscriptus* Gosse, Nat. Sojourn Jamaica, 52, pl. 1, fig. 4, 1851, Jamaica.



**3034. *Syacium latifrons* (Jordan & Gilbert).**

Pacific Coast of tropical America; Panama.

*Citharichthys latifrons* Jordan & Gilbert, Bull. U. S. F. C. 1881, 334, Panama.**3035. *Syacium ovale* (Günther).**

Pacific Coast of Tropical America, Mazatlan to Panama.

*Hemirhombus ovale* Günther, Proc. Zool. Soc. Lond. 1864, 154, Panama.**3036. *Syacium micrurum* Ranzani.**

West Indies; Key West to Rio Janeiro.

*Syacium micrurum* Ranzani, Nov. Spec. Pisc. Disc. Sec., 1840, 20, pl. 5, Brazil.**Genus 1087. PLATICHTHYS Girard.***Platichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 136 (*rugosus* = *stellatus*).**3037. *Platichthys stellatus* Pallas. California Flounder.**

Pacific Coast of America, from Point Conception to the Arctic Ocean, and south to Sakhalin.

*Pleuronectes stellatus* Pallas, Zoogr. Rosso-Asiat., iii, 416, 1811, Alaska.**Genus 1088. EMBASSICHTHYS Jordan & Evermann.***Embassichthys* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*bathybius*).**3038. *Embassichthys bathybius* (Gilbert).**

Coast of California south of Point Conception.

*Cynoglossus bathybius* Gilbert, Proc. U. S. Nat. Mus. 1890, 123, Santa Barbara Channel, at Albatross Station 2080, in 603 fathoms.**Genus 1089. MICROSTOMUS Gottsche.***Microstomus* Gottsche, Wiegmann's Archiv 1835, 150 (*latidens*); not *Microstoma* Risso, 1826.**3039. *Microstomus kitt* (Walbaum). Smear Dab.**

Arctic Europe, west to the sea between Greenland and Iceland.

*Pleuronectes kitt* Walbaum, Artedl Placium, iii, 120, 1792, after Ray; the description is in part confused with that of *Lepidorhombus*.**3040. *Microstomus pacificus* (Lockington).**

Pacific Coast of North America, Monterey to Vancouver Island, and probably northward.

*Glyptocephalus pacificus* Lockington, Rept. Cal. Com. Fisheries 1878-79, 43, off Point Reyes, California.**Genus 1090. GLYPTOCEPHALUS Gottsche.***Glyptocephalus* Gottsche, Wiegmann's Arch. 1835, 156 (*saxicola* = *cynoglossus*).**3041. *Glyptocephalus cynoglossus* (Linnaeus).**

North Atlantic, chiefly in deep water, south to Cape Cod and France.

*Pleuronectes cynoglossus* Linnaeus, Syst. Nat., ed. x, 269, 1758; after Gronow.**3042. *Glyptocephalus zachirus* Lockington.**

Deep waters of the Northern Pacific; thus far known only from about San Francisco.

*Glyptocephalus zachirus* Lockington, Proc. U. S. Nat. Mus. 1879, 88, San Francisco.**Family CCXXIV. SOLEIDÆ. The Soles.****Genus 1031. ACHIRUS Lacépède.***Achirus* Lacépède, Hist. Nat. Poiss., iv, 659, 1803 (*fasciatus*, etc.).**3043. *Achirus achirus* (Linnaeus).**

Atlantic coasts of tropical America.

*Pleuronectes achirus* Linnaeus, Sys. Nat., ed. x, 268, 1758; based on Gronow.**3044. *Achirus inscriptus* Gosse.**

West Indies, north to Key West.

*Achirus inscriptus* Gosse, Nat. Sojourn Jamaica, 52, pl. 1, fig. 4, 1851, Jamaica.







**3045. *Achirus klunzingeri* (Steindachner).**

Pacific Coast of tropical America, Panama to Guayaquil.

*Solea klunzingeri* Steindachner, Zur Fische des Cauca und der Flusse bei Guayaquil, 44, 1879, Guayaquil, Ecuador.

**3046. *Achirus lineatus* (Linnæus).**

West Indies, Key West and Egmont Key to Uruguay.

*Pleuronectes lineatus* Linnæus, Syst. Nat., ed. x, 268, 1758; based on Brown & Sloane; not of ed. xii, which is *Achirus fasciatus*.

**3047. *Achirus mazatlanus* (Steindachner). *Mexican Sole; Teipalcate.***

Pacific Coast of tropical America.

*Solea mazatlana* Steindachner, Ichth. Notizen, ix, 23, 1869, Mazatlan.

**3048. *Achirus fonsecensis* (Günther).**

Pacific Coast of tropical America, Mazatlan to Fonseca.

*Solea fonsecensis* Günther, Cat., iv, 475, 1862, Gulf of Fonseca.

**3049. *Achirus fischeri* (Steindachner).**

Pacific coast of Isthmus of Panama.

*Solea fischeri* Steindachner, Beitr. Kenntniss Flus-Fische Sud-Amer., 13, 1879, Rio Mamone, near Panama.

**3050. *Achirus scutum* (Günther).**

Pacific Coast of Central America.

*Solea scutum* Günther, Cat., iv, 474, 1862, Gulf of Fonseca, Panama.

**3051. *Achirus fimbriata* (Günther).**

Gulf of Fonseca.

*Solea fimbriata* Günther, Cat., iv, 477, 1862, Gulf of Fonseca.

**3052. *Achirus fasciatus* Lacépède. *American Sole; Hog-choker.***

Atlantic Coast of United States, from Cape Cod to Texas; often ascending streams.

*Achirus fasciatus* Lacépède, Hist. Nat. Poiss., iv, 659, 662, 1803, Charleston, S. C.; description based entirely on the Linnæan account of the fish sent by Garden.

**3053. *Achirus panamensis* (Steindachner).**

Pacific Coast of Tropical America, Panama.

*Solea panamensis* Steindachner, Ichth. Beitr., v, 10, pl. 2, 1876, Panama.

**Genus 1032. *APIONICHTHYS* Kaup.**

*Apionichthys* Kaup, in Wiegmann's Archiv 1858, 104 (*dumerili*).

**3054. *Apionichthys unicolor* (Günther).**

West Indies.

*Soleotalpa unicolor* Günther, Cat., iv, 1862, 489, West Indies.

**Genus 1033. *SYMPHURUS* Rafinesque.**

*Symphurus* Rafinesque, Indice d' Ittiologia Siciliana, 52, 1810 (*nigrescens*).

**3055. *Symphurus marginatus* (Goode & Bean).**

West Indies.

*Aphoristia marginata* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 153, 1883, off St. Vincent, etc.

**3056. *Symphurus atramentatus* Jordan & Bollman.**

Off coast of Colombia.

*Symphurus atramentatus* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 177, off coast of Colombia, at Albatross Station 2795, 7° 57' N., 78° 55' W., in 33 fathoms.

**3057. *Symphurus elongatus* (Günther).**

Pacific Coast of tropical America.

*Aphoristia ornata* var. *elongata* Günther, Fishes Cent. Am., 473, 1869, Panama.

**3058. *Symphurus leei* Jordan & Bollman.**

Off the coast of Colombia.

*Symphurus leei* Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 178, off coast of Colombia, at Albatross Station 2804, 8° 16' 30' N., 79° 37' 45'' W., in 47 fathoms.

3059. *Symphurus atricauda* (Jordan & Gilbert).  
Lower California, north to San Diego.  
*Aphoristia atricauda* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 23, San Diego, California.
3060. *Symphurus plagusia* (Bloch & Schneider). *Acedia*.  
West Indies, south to Rio Janeiro.  
*Pleuronectes plagusia* Bloch & Schneider, Syst. Ichthyol., 162, 1801; after Brown.
3061. *Symphurus plagiusa* (Linnaeus). *Tongue-fish*.  
South Atlantic and Gulf coasts of United States.  
*Pleuronectes plagiusa* Linnaeus, Syst. Nat., ed. xii, 455, 1766, on a specimen from Dr. Garden, probably from Charleston, but the locality not quite certain.
3062. *Symphurus diomedea* (Goode & Bean).  
Gulf of Mexico, off Key West, Florida.  
*Aphoristia diomedea* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 589, off Key West, Florida, at Albatross Station 2414, 25° 4' 30" N., 83° 21' 15" W., in 24 fathoms.
3063. *Symphurus pusillus* (Goode & Bean).  
Off Atlantic Coast of United States, in deep water.  
*Aphoristia pusilla* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 590, Gulf Stream, at 40° 7' 48" N., 70° 45' 54" W., and 40° 1' N., 69° 56' W.
3064. *Symphurus piger* (Goode & Bean).  
West Indies and Gulf of Mexico, in deep water.  
*Aphoristia pigra* Goode & Bean, Bull. Mus. Comp. Zool., xiii, No. 5, 154, 1886, St. Kitts, Key West, and Cedar Keys, in about 250 fathoms.
3065. *Symphurus nebulosus* (Goode & Bean).  
Gulf Stream.  
*Aphoristia nebulosa* Goode & Bean, Bull. Mus. Comp. Zool., xii, 192, 1883, Gulf Stream, off the coast of California.
3066. *Symphurus williamsi* Jordan & Starks.  
West coast of Mexico.  
*Symphurus williamsi* Jordan & Starks, in Jordan, Fishes Sinaloa, 506, 1885, Mazatlan, Sinaloa.
3067. *Symphurus fasciolaris* Gilbert.  
Gulf of California.  
*Symphurus fasciolaris* Gilbert, Proc. U. S. N. M. 1891, 566, Gulf of California.

## Order DD. PEDICULATI. The Pediculate Fishes.

## Family CCKXV. LOPHIIDÆ. The Fishing Frogs.

Genus 1034. LOPHIUS (Artedi) Linnaeus. *Fishing-Frogs*.  
*Lophius* (Artedi) Linnaeus, Syst. Nat., ed. xii, 402, 1766 (*piscatorius*).

3068. *Lophius piscatorius* Linnaeus. *Fishing-frog; Monk-fish; Goose-fish; Angler; All-mouth; Bellows fish*.  
North Atlantic, on both coasts.  
*Lophius piscatorius* Linnaeus, Syst. Nat., ed. xii, 402, 1766, no locality given.

Genus 1035. LOPHIOMUS Gill.  
*Lophiomus* Gill, Proc. U. S. Nat. Mus. 1882, 552 (*setigerus*).

3069. *Lophiomus setigerus* Wahlenberg.  
Coasts of China and Japan.  
*Lophius setigerus* Wahlenberg, Skrivt. Naturh., iv, 214, tab. 3, figs. 5 and 6.

Lophiodes Gouder & Bean  
proxi to Chirolophus

Lophomus ~~altissimus~~,  
Coast of Louisiana.

*P. gibbus* Mitchell  
84.

*Histrio fischeri* = *zoognathia* = *Bent.*  
(*prole Pterophyga*) 75, 1813. *Chironomus*

*A. nuttingi* Garman  
Dora. 83. St. Barbara Baha

*A. radialis* Garman 85 Key West.

*A. princeps* Cuv & Val.

*Corallinus* = *multicellatus*

81 ' 77' *gibbus*.

*Chaunax nuttingi* Garman  
St. Sand Key Light

## Family CCXXVI. ANTENNARIIDÆ

Genus 1036. PTEROPHRYNE Gill.

*Pterophryne* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 90 (*histrio*).*Histrio* seems to have been3070. *Pterophryne histrio* (Linnæus).

Tropical parts of the Atlantic; abundant on our Gulf Coast and occasional southward.

*Lophius histrio* Linnæus, Syst. Nat., ed. x, 237, 1758, in the open sea.

Genus 1037. ANTENNARIUS Lacépède. (Common)

*Antennarius* Lacépède, Hist. Nat. Poiss., i, 421, 1798 (*chironectes*).3071. *Antennarius sanguineus* Gill.

Cape San Lucas, Lower California.

*Antennarius sanguineus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 91, Cape San Lucas, Lower California.3072. *Antennarius strigatus* Gill.

Cape San Lucas, Lower California.

*Antennarius strigatus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 92, Cape San Lucas, Lower California.3073. *Antennarius scaber* (Cuvier).

Caribbean Sea; Port Castries; St. Lucia.

*Chironectes scaber* Cuvier, Mém. Mus., III, 425, pl. 16, fig. 2.3074. *Antennarius reticularis* Gilbert.

Gulf of California.

*Antennarius reticularis* Gilbert, Proc. U. S. Nat. Mus. 1891, 566, Gulf of California, at Albatross Station 2825, in 7 fathoms.3075. *Antennarius multiocellatus* (Cuvier & Valenciennes).

Garden Key, Florida, to Martinique.

*Chironectes multiocellatus* Cuvier & Valenciennes, Hist. Nat. Poiss., 422, 1837, Martinique.3076. *Antennarius tigris* Poey.

Cuba.

*Chironectes tigris* Poey, Memorias, i, 217, pl. 17, fig. 2, 1851, Cuba.3077. *Antennarius inops* Poey.

West Indies.

*Antennarius inops* Poey, Ann. Sci. Nat. Madrid 1874, Puerto Rico.3078. *Antennarius corallinus* Poey. *Martin Pescador*.

Cuba.

*Antennarius corallinus* Poey, Repertorio, i, 188, 1865, Havana.3079. *Antennarius tenebrosus* (Poey).

Cuba.

*Chironectes tenebrosus* Poey, Memorias, i, 219, pl. 17, fig. 1, 1851, Cuba.3080. *Antennarius ocellatus* (Bloch & Schneider).

Pensacola, Florida.

*Lophius ocellatus* Bloch & Schneider, Syst. Ichth., 142, 1801.3081. *Antennarius sonntagii* (Müller).

Gulf of Mexico.

*Chironectes sonntagii* Müller, Reisen in Mexico, etc., i, 180, 1864, north of the Bahamas.

Genus 1038. CHAUNAX Lowe.

*Chaunax* Lowe, Trans. Zool. Soc. Lond., III, 1846, 339 (*pictus*).3082. *Chaunax pictus* Lowe.

Madeira and off the coast of Rhode Island.

*Chaunax pictus* Lowe, Trans. Zool. Soc. Lond. 1846, 339, Camera de Lobos.

## Family CCXXVII. CERATIIDÆ.

## Genus 1039. CERATIAS Krøyer.

*Ceratias* Krøyer, Naturhist. Tidsskrift, 2 Række, 1, 1844, 639 (*holboellii*).

3083. *Ceratias holboellii* Krøyer.

Greenland.

*Ceratias holboellii* Krøyer, Naturh. Tidsskrift 1844, 639, Greenland.

## Genus 1040. MANCALIAS Gill

*Mancalias* Gill, Proc. U. S. Nat. Mus., 1, 1878, 227 (*uranoscopus*).

3084. *Mancalias uranoscopus* (Murray).

Deep sea; taken at Madeira and off the coast of southern New England.

*Ceratus uranoscopus* Murray, in Wyville Thompson, The Atlantic, II, 67, 1878, off Madeira.

3085. *Mancalias shufeldti* (Gill).

Western Atlantic.

*Typhlopsaras shufeldti* Gill, Forest and Stream, November 8, 1883, 284, western Atlantic.

## Genus 1041. CRYPTOPSARAS Gill

*Cryptopsaras* Gill, Forest and Stream, November 8, 1883 (*conceii*).

3086. *Cryptopsaras conceii* Gill.

Gulf Stream.

*Cryptopsaras conceii* Gill, Forest and Stream, November 8, 1883, 284, Gulf Stream, at Albatross Station 2101.

## Genus 1042. ONEIRODES Lütken.

*Oneirodes* Lütken, Overs. Kong. Dansk. Vidensk. Selsk. Forhandl. 1871, 66 (*eschrichtii*).

3087. *Oneirodes eschrichtii* Lütken.

Deep sea, off Greenland.

*Oneirodes eschrichtii* Lütken, Dansk. Vidensk. Selsk. Forh. 1871, 57, Greenland.

## Genus 1043. HIMANTOLOPHUS Reinhardt.

*Himantolophus* Reinhardt, Dansk. Vid. Selsk. Nat. 1837, 74 (*grœnlandicus*).

3088. *Himantolophus grœnlandicus* Reinhardt.

Greenland.

*Himantolophus grœnlandicus* Reinhardt, Dansk. Vidensk. Selsk. Nat. Math. Afb., 1837, 74, Greenland.

## Genus 1044. CORYNOLOPHUS Gill

*Corynolophus* Gill, Proc. U. S. Nat. Mus. 1878, 219 (*reinhardtii*).

3089. *Corynolophus reinhardtii* (Lütken).

Greenland.

*Himantolophus reinhardtii* Lütken, Dansk. Vid. Selsk. 1878, 321, Greenland.

## Genus 1045. LINOPHRYNE Collett.

*Linophryne* Collett, Proc. Zool. Soc. Lond. 1886, 138 (*lucifer*).

3090. *Linophryne lucifer* Collett

Open Atlantic

*Linophryne lucifer* Collett, Proc. Zool. Soc. Lond. 1886, 138, pl. 15, off Madeira, lat. 36° N., long. 20° W.

## Genus 1046. LIOCETUS Gunther.

*Liocetus* Gunther, Challenger Rept., XXII, 57, 1887 (*murrayi*).

3091. *Liocetus murrayi* Gunther.

Mid-Atlantic at Challenger Stations 106 and 348.

*Melanocetus* (*Liocetus*) *murrayi* Gunther, Challenger Rept., XXII, 57, pl. 11, fig. A, 1887, mid-Atlantic.





*Ag. cocephalus radiatus* Mitchell.

*H. canibaensis* Harman.

Dorra Lab. 87, 1896

Jamaica Barbados.

**Genus 1047. CAULOPHRYNE Goode & Bean.**

*Caulophryne* Goode & Bean, Oceanic Ichth., 496, 1896 (*jordani*).

**3092. *Caulophryne jordani* Goode & Bean.**

Atlantic Coast, off New Jersey.

*Caulophryne jordani* Goode & Bean, Ocean. Ichth., 496, fig. 409, 1896, Gulf Stream, at 39° 27' N., 71° 15' W., in 1,276 fathoms.

**Family CCXXVIII. OGCOCEPHALIDÆ. The Bat-Fishes.****Genus 1048. OGCOCEPHALUS Fischer.**

*Ogcocephalus* Fischer, Zoognosia, 78, 1813 (*vespertilio*).

**3093. *Ogcocephalus vespertilio* (Linnæus).**

West Indies, north to Carolina.

*Lophius vespertilio* Linnæus, Syst. Nat., ed. XII, 402, 1766, American coast of Atlantic Ocean.

**Genus 1049. ZALIEUTES Jordan & Evermann.**

*Zalieutes* Jordan & Evermann, Fishes North and Middle America, 1896 (*elater*).

**3094. *Zalieutes elater* (Jordan & Gilbert).**

West coast of Mexico.

*Malthe elater* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 365, Mazatlan, Mexico.

**Genus 1050. HALIEUTICHTHYS Poey.**

*Haliutichthys* Poey, in Gill, Proc. Ac. Nat. Sci. Phila. 1863, 89 (*reticulatus*).

**3095. *Haliutichthys aculeatus* (Mitchill).**

Cuba to southern Florida.

*Lophius aculeatus* Mitchill, Amer. Month. Mag. 1818, 325, Straits of Bahama.

**Genus 1051. HALIEUTÆA Cuvier & Valenciennes.**

*Haliutæa* Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 455, 1837 (*stellatus*).

**3096. *Haliutæa spongiosa* Gilbert.**

Pacific Ocean, off Lower California.

*Haliutæa spongiosa* Gilbert, Proc. U. S. Nat. Mus. 1890, 124, at Albatross Station 2992, 18° 17' 30'' N., 114° 43' 15'' W., in 460 fathoms.

**Genus 1052. HALIEUTELLA Goode & Bean.**

*Haliutella* Goode & Bean, Proc. Biol. Soc. Wash. 1882 (1885), 88 (*lappa*).

**3097. *Haliutella lappa* Goode & Bean.**

Gulf Stream.

*Haliutella lappa* Goode & Bean, Proc. Biol. Soc. Wash. 1882 (1885), 88, Gulf Stream, at Fish Hawk Station 1151, 39° 58' 30'' N., 70° 37' W., in 125 fathoms.

**Genus 1053. DIBRANCHUS Peters.**

*Dibranchus* Peters, Monatsb. König. Preuss. Ak. Wiss., Berlin, 1875 (1876), 736 (*atlanticus*).

**3098. *Dibranchus atlanticus* Peters.**

Gulf Stream.

*Dibranchus atlanticus* Peters, Monatsberichte König. Preuss. Ak. Wiss. Berlin, 1875 (1876), 736, 10° 12' 9'' N., 17° 25' 5'' W., coast of west Africa.

## INTRODUCED SPECIES.

## Family CYPRINIDÆ

1. *Cyprinus carpio* Linnaeus. *Carp; German Carp.*

Fresh waters of Asia, but introduced into Europe and America as a food fish. It has been extensively introduced into private ponds in nearly all parts of the United States. From the ponds it has escaped into the streams and lakes, and is now an abundant fish in most of our larger, warmer rivers and in the ponds and bayous of the Mississippi Valley, on the south shore of Lake Erie, in the lower Columbia River, and in many other places.

*Cyprinus carpio* Linnaeus, Syst. Nat., ed. x, 320, 1758.

2. *Carassius auratus* (Linnaeus). *Goldfish.*

Native to China and Japan, but introduced everywhere as an aquarium fish and now naturalized in many of the streams in the eastern United States.

*Cyprinus auratus* Linnaeus, Syst. Nat., ed. x, 323, 1758.

3. *Tinca tinca* (Linnaeus). *Tench.*

Native in Europe. Introduced into the United States, but not yet well established anywhere.

*Cyprinus tinca* Linnaeus, Syst. Nat., ed. x, 321, 1758, "habitat in Europæ stagnis lacubus."

4. *Idus idus* (Linnaeus). *Golden Ide.*

Native in Europe. Introduced into the United States, but it has not yet become well established.

*Cyprinus idus* Linnaeus, Syst. Nat., ed. x, 324, 1758, fresh waters of Europe.

## Family SALMONIDÆ.

5. *Salmo trutta levenensis* (Walker). *Loch Leven Trout.*

Loch Leven, in Fifeshire, and other lochs in the south of Scotland and north of England. Introduced by the U. S. Fish Commission into Shoshone Lake, in the Yellowstone National Park, and elsewhere.

*Salmo levenensis* Walker, Wernerian Memoirs, i, 541, 1808.

6. *Salmo fario* Linnaeus. *Von Behr Trout; Brown Trout.*

Northern Europe. Introduced into the waters of Yellowstone Park and elsewhere.

*Salmo fario* Linnaeus, Syst. Nat., ed. x, 309, 1758, "habitat in Sveciæ, Helvetiæ fluvius."

## ADDENDUM

The following species were inadvertently omitted from the foregoing list:

7404. *Stolephorus scottii* Jordan & Culver.

Mazatlan, west coast of Mexico.

*Stolephorus scottii* Jordan & Culver, Fishes of Sinaloa, 410, 1895, Mazatlan.

19994. *Nexilaria concolor* (Gill).

Panama

*Eucnistodus concolor* Gill, Proc. Ac. Nat. Sci. Phila., 1862, 145, Panama.

This is a valid species, the type of the genus *Nexilaria* Gilbert ms., distinguished by the adnate preopercle.





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| Genera of Rafinesque, <sup>m-monotypic</sup> |    |                     |  |
|--|----|---------------------|--|
| Curatere, 1810,                              |    |                     |  |
| Carcharias 10. taurus m Odontaspis           |    |                     |  |
| Dalatias                                     | 10 | apophagus, ?        | Symnus = <sup>Carcharias</sup>             |
|  |    | velumius {type}     | Centrophorus                               |
| Ieloras                                      | 11 | angiova m           | ? <sup>or Squalus</sup> <del>Squalus</del> |
| Iaurus                                       | 11 | oxyrhynchus m.      | Cetorhinus                                 |
| Cenetus                                      | 12 | maerurus m.         | ISURUS                                     |
| Alopias                                      | 12 | maerurus m          | False                                      |
| HEPTRANCHIAS                                 | 13 | cinerens m          | VULPECUL                                   |
| Galeus                                       | 13 | melastomus m        | HEPTRANCH                                  |
| Squalus                                      | 13 | nyato (not type)    | Pristiurus                                 |
| Hexanchus                                    | 14 | gracilis m.         | SENAZUS                                    |
| Elmopterus                                   | 14 | aculeatus m         | HEXANCHUS                                  |
| Rhina  | 14 | equatina m.         | ELMOPTERUS                                 |
| Rhinobatus                                   | 16 | panduratus m.       | Rhina                                      |
| Diplurus                                     | 16 | batis L. m.         | Rhinobatus                                 |
| Dasyatis                                     | 16 | ujis m              | RADIA                                      |
| Orthragus                                    | 17 | <sup>luna</sup> } m | -DASYBATIS                                 |
| Diplanthis                                   | 17 | oblongus }          | MOHAT                                      |
| Mola   | 17 | mola L. m.          | MOHAT                                      |
| Tiphle                                       | 18 | tiphle m            | MOHAT                                      |
| Siphostoma                                   | 18 | aculeata, 1         | TYPHLE                                     |
| Oxyurus                                      | 19 | vermiciformis 2     | Syngnathus                                 |

Evermann's list. recent species,  
Proc. Phil. Acad. Nat. Sci., Phila. 1901.

*Alora ohionensis* Es, Rep. 27, 277, 1901 (2)

*Notropis trimleyi* G. Reem. <sup>Gales & Ohio.</sup> Proc. 26, 1902, 913

*Notropis gilberti* J. & E. Proc. <sup>Cane R. N.C.</sup> 11, 188 351

*Notropis chalybeius abbotti* Fowler. <sup>Roman Lake.</sup> Phil. 56, 1904 239

*Cathentichthys microps* Fowler. <sup>Salado R. N.Y.</sup> Phil. 68, 1901 200

*Notropis Keimii* Fowler. <sup>Crotons Inlet. Cape May.</sup> Phil. 60, 1908, 533

<sup>Allegheny R. Port Allegany</sup>

*Acanthichthys taylori* Gilbert.

*Stenichthys arocae* <sup>Nanaimo</sup> ~~Caesariensis~~ Fowler Phil  
64, 1912, 36

*Gynplocara* <sup>Beasley's Point.</sup> ~~glabra.~~ <sup>Algonquin R. J.</sup>

*Antennarius telepterus* Fowler. Phil. 64, 1912  
38. <sup>Crotons Inlet Cape May.</sup>

*Leptocottus maculatus* Fowler Phil.

66, 1914, 360. <sup>Melville Bay. Alaska</sup>

*Leptocottus armatus* Fowler. 363. <sup>Lepman's</sup>

*Rhinichthys bowersi* Goldsborough & Clark,  
Bull. 27, 1907, 36

<sup>Dog Fork. Hermann W. Va.</sup>

*Pseudopleuronectes dignabilis* Kendall

Bull. 30, 392, 1910 <sup>Georgi's Bank</sup>

*Notropis cellaris* Radcliffe & Welch

Bull. 32, 1912, 31 <sup>Swan Cr. Ind.</sup>

*Agosyromus emensis* J. & E.

Proc. 1909, 105, <sup>Blk. Staring</sup>

" <sup>heronius</sup> p. 167 " "

" <sup>zambucius</sup> p. 171 <sup>Labrid</sup>

*Chaetodon brevis* Fowler. 126

17, 1887, 152 <sup>Ward's Lake</sup>

*Leptocottus armatus* <sup>Ward's Lake</sup>

<sup>Ward's Lake</sup>

*Callinectes* <sup>Ward's Lake</sup>

11, 1887, 174 <sup>Ward's Lake</sup>

*Alutera monoceros.*

Woods Hole. Acc Smith

Bull. 18. 273. 1898

*Paenes edwardi* Eigenmann

Bull. 21. 1901 135

30 miles S. of Newport R.I.

*Leuciscus carltoni* Kendall

Bull. 22. 1902. 257.

E. Penobscot R.

*Priniphales annuli* <sup>Everm</sup> l.c. 260

Between mud & Gross L. Me.

*Coregonus stanleyi* Kend. l.c. <sup>also</sup> place

*Leuciscus evermanni* Jeday

Bull. 24. 1904. 226.

Boulder Creek Colo.

*Trigloporus antariensis* Jor. & Shuts

Proc. 88. 1910. 75. Off Toronto.

*Triglops ornatus* (v. *purpali*)

Gilbert. Proc. 44. 1913. Glauco

terrac. novae - same Newf

*Etheostoma anbeenaubei* Ev.

Rept. 1899. 367

d. Maxentrichus

*Hadropneustes maxentrichus*

Ev. same

*Notropis chautauqui* Coker

*Notemurus alisoni*.





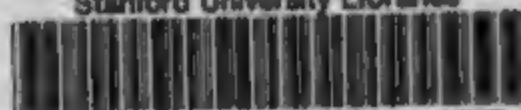


Carcharias. Car. Dentibus magnis, triangularibus, serratis; Insp. nullis; P. 3. 2, 1<sup>a</sup>. dorsali; P. A. parva; Possula semilunari ad radicem sup. et inf. P. C. bilobatae, lobe sup. multum longiore et pinna speciali terminato.  
Spec. Commersonii; Lamia; Lividus; Ustus; Heterodon; Verus; Broussonetii; Glaucus; Caeruleus; Megalops; Heterobranchialis; Cornubicus; Nonensis? Vulpes.

[Prothome d'une nouvelle distribution  
systématique du Règne animal,  
par M. H. de Blainville.

avec des sciences par la Société Philomatique  
de Paris, le 18 Mars 1811.

587 J82c C.1  
A check-list of the fishes and  
Stanford University Libraries



3 6105 031 192 177

quadripusculus is Doubtless female  
boscanis with dorsal horn free.

We annexed two types of *Lonchopisthus*  
deeper body, longer tail, shorter and much  
broader maxillary than *Gnathypops*,  
about  $2/3$  the broad eye, at its tip. Scales rather  
large.

Type 2 *neolitiformis* *atlanticus* from Godbout  
Quebec. 1st ♂ sp. as long as head. V dish  $1\frac{3}{4}$ .

Need 4 3/4

Montague

1882

Lumpen

has low dorsal.

6th St.

597  
J82c  
cop. 1

Jordan & Evermann  
A check-list of the fishes and fish-like  
vertebrates of north and middle America

137747

| NAME                | DATE           | NAME | DATE |
|---------------------|----------------|------|------|
| <i>Book written</i> | <i>5/24/05</i> |      |      |
| <i>Book written</i> | <i>5/24/05</i> |      |      |

13774

